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# **University of Madras**

**THE CALENDAR for 1929-30**

**VOL. I**

**The Madras University Act No. VII of 1923,  
Laws and Appendices.**

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---

**1929.**



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### DESCRIPTION OF THE COAT OF ARMS.

“ Argent on a Mount issuant from the base Vert a Tiger passant proper, on a Chief Sable, a Pale Or, thereon, between two Elephants heads coupé of the field, a Lotus flower leaved and slipped of the third, together with this motto ‘ Doctrina Vim Promovet insitam ’ ”.

Accordingly in the margin of the Grant the Arms are shown with the following tints :—

‘ the base Vert ’	— a light green
Tiger	— Yellow on white ground
Elephants	— grey on black ground
Lotus	— white flower, olive green leaves, on gold ground
Motto Scroll	— edged red, black lettering.

# THE CALENDAR FOR 1929.

## JULY

1	M	
2	Tu	
3	W	
4	Th	
5	F	Publication of results of Final Medical Examination.
6	S	<b>Meeting of Syndicate.</b>
7	<b>Sun</b>	
8	M	Last day for receiving attendance certificates for B.S.Sc. Part II Examination.
9	Tu	
10	W	
11	Th	
12	F	
13	S	
14	<b>Sun</b>	
15	M	Examination for the Diploma in French. M.L. and B.S. Sc. Part II Examinations. Last day of registration for September Intermediate, B.A., B.A. (Hons.) Preliminary, B.Sc. (Part I), L.T., F.L., B.L. and Diploma in Midwifery Examinations. Last day for receiving attendance certificates for Diploma in Midwifery.
16	Tu	Examination for the Diploma in German.
17	W	
18	Th	<b>University of Bombay, Incorporated, 1857.</b>
19	F	
20	S	
21	<b>Sun</b>	
22	M	<b>University of Mysore, Incorporated, 1916.</b>
23	Tu	
24	W	
25	Th	
26	F	
27	S	<b>Meeting of Syndicate.</b>
28	<b>Sun</b>	
29	M	
30	Tu	
31	W	



## AUGUST

1	Th	
2	F	
3	S	
4	Sun	
5	M	
6	Tu	
7	W	
8	Th	
9	F	
10	S	
11	Sun	
12	M	Publication of the results of B.S.Sc. Part II Examination.
13	Tu	
14	W	
15	Th	Assumption Day. Convocation.
16	F	
17	S	Meeting of Syndicate.
18	Sun	<i>Barawafat</i> (Holiday).
19	M	Last day for receiving attendance certificates for September Arts Examinations, B.Sc. (Part I) and L.T. Examinations.
20	Tu	<i>Avani Avittam</i> (Holiday).
21	W	
22	Th	
23	F	Meeting of the Academic Council.
24	S	
25	Sun	
26	M	
27	Tu	Gokulashtami.
28	W	<i>Sri Jayanti</i> (Holiday).
29	Th	
30	F	
31	S	<i>Last Saturday</i> (Holiday).

## SEPTEMBER

1	Sun	Last day for receiving applications for pass certificates of Matric and Inter. Examinations of March 1929.
2	M	Publication of results of M. L. Degree Examn.  <b>University of Madras, Incorporated, 1857.</b> <i>Vinayaka Chathurthi</i> (Holiday).
3	Tu	
4	W	
5	Th	
6	F	
7	S	
8	Sun	The Indian Universities Act, 1904, came into force in the University of Madras, 1904.
9	M	Inter., B.A., B.A. (Hons.) Prelimy., and B.Sc. (Part I). Examns.
10	Tu	L. T. Degree Examination.
11	W	
12	Th	
13	F	
14	S	
15	Sun	
16	M	Last day for receiving attendance certificates for Oct. F. L. and B. L. Examns.
17	Tu	M. L. Degree Examination
18	W	
19	Th	
20	F	
21	S	
22	Sun	
23	M	
24	Tu	
25	W	
26	Th	
27	F	
28	S	<i>Last Saturday</i> (Holiday).
29	Sun	St. Michaelmas Day.
30	M	

THE CALENDAR FOR 1929.

OCTOBER

1	Tu	University of Patna, Incorporated, 1917.
2	W	<i>Mahalaya Amavasai</i> (Holiday).
3	Th	
4	F	
5	S	
6	Sun	
7	M	F.L. and B.L. Examinations.
8	Tu	
9	W	
10	Th	Meeting of Syndicate.
11	F	
12	S	<i>Ayudha Puja</i> (Holiday).
13	Sun	
14	M	Diploma in Midwifery Examination. <b>University of Punjab, Incorporated, 1882.</b>
15	Tu	Last day of registration for Pre-Registration, First, Second, and Final Medical Examinations.
16	W	
17	Th	
18	F	Meeting of the Senate
19	S	
20	Sun	
21	M	Publication of results of Inter., B.A., B.A. (Hons.) Prelim., B.Sc. (Part I) and L. T. Examinations.
22	Tu	
23	W	
24	Th	
25	F	
26	S	<i>Last Saturday</i> (Holiday).
27	Sun	
28	M	
29	Tu	
30	W	
31	Th	<i>Deepavali</i> (Holiday).

## NOVEMBER

1	F	
2	S	
3	Sun	
4	M	Publication of results for the Diploma in Midwifery Examination.
5	Tu	
6	W	
7	Th	
8	F	
9	S	
10	Sun	
11	M	Publication of results of F.L. and B.L. Exms.
12	Tu	
13	W	
14	Th	
15	F	
16	S	Meeting of Syndicate. University of Allahabad, Incorporated, 1887.
17	Sun	
18	M	
19	Tu	
20	W	
21	Th	
22	F	
23	S	Last day for receiving attendance certificates for Pre-Registration, First, Second and Final Medical Exams.
24	Sun	
25	M	
26	Tu	
27	W	
28	Th	
29	F	
30	S	Meeting of Syndicate. Last day of registration for B.A. (Hons.) Final, M.A. and O. T. Examinations.

## DECEMBER

1	Sun	Last day of registration for B.S.Sc. Part I., M. Sc., Ph. D., D. Sc., LL.D., M.O.L. & M.A. Degree in Research Examns. Publication in the <i>Gazette of India</i> in 1904, of the Chancellor's Declaration that the Body Corporate of the University of Madras had been constituted in accordance with the provisions of the Indian Universities Act, 1904. University of Rangoon and Muslim University, Aligarh, incorporated, 1920.
2	M	Pre-Registration, First Second and Final Medical Examinations.
3	Tu	
4	W	
5	Th	
6	F	
7	S	
8	Sun	
9	M	
10	Tu	
11	W	
12	Th	
13	F	
14	S	Meeting of the Academic Council
15	Sun	Last day of registration for Inter., B.A., B.Sc., and B.A. (Hons.) Prelim. Examns.
16	M	Meeting of Syndicate. University of Lucknow, Incorporated, 1920.
17	Tu	
18	W	
19	Th	
20	F	Last day of registration for Matric. Examination. Publication of the results of Pre-Registration, First and Second Medical Examinations.
21	S	
22	Sun	
23	M	
24	Tu	Christmas Vacation (Holiday).
25	W	Do. do. Christmas day.
26	Th	Do. do.
27	F	Do. do.
28	S	Do. do.
29	Sun	Do. do.
30	M	Do. do.
31	Tu	Do. do.

# THE CALENDAR FOR 1930

7

## JANUARY

1	W	<i>Christmas Vacation (Holiday) New Year's Day.</i> <b>Annammalai University, Annamalaiagar-Incorporated, 1929.</b>
2	Th	Christmas vacation (Holiday).
3	F	Office re-opens.
4	S	
5	Mon	
6	M	Last day for receiving attendance certificates for B.S.Sc. Part 1 Examination. Publication of results of Final Medical Examination.
7	Tu	
8	W	
9	Th	
10	F	
11	S	<i>Vaikunta Ekadasi (Holiday).</i>
12	Mon	
13	M	<i>Bhogi Pandigai (Holiday).</i>
14	Tu	<i>Pongal Pandigai (Holiday).</i>
15	W	B.S.Sc. Part 1 Examination. Last day of registration for M. L., Engineering, M.D., M.S. and Diploma in Midwifery Examinations. Last day for receiving attendance certificates for M.D., M.S. and Diploma in Midwifery Examinations.
16	Th	<b>University of Calcutta, Incorporated, 1857.</b>
17	F	
18	S	
19	Mon	
20	M	Last day of registration for B.Sc. Ag., L.T., F.L., B. L. and Diploma in Economics Examinations.
21	Tu	
22	W	
23	Th	<b>Andhra University, Bezwada, Incorporated, 1926.</b>
24	F	
25	S	Meeting of Syndicate
26	Sun	
27	M	Publication of the results of B.S.Sc., Part I Examination.
28	Tu	
29	W	
30	Th	
31	F	

## FEBRUARY

1	S	Last day for receiving applications for pass certificates of Intermediate Examination of September 1929.
2	Sun	
3	M	
4	Tu	
5	W	
6	Th	
7	F	
8	S	
9	Sun	
10	M	
11	Tu	
12	W	
13	Th	
14	F	
15	S	Meeting of Synod.
16	Sun	
17	M	
18	Tu	
19	W	
20	Th	
21	F	
22	S	<i>Last Saturday (Holiday)</i>
23	Sun	
24	M	
25	Tu	
26	W	<i>Mahasivaratri (Holiday).</i>
27	Th	<i>Feb 1</i>
28	F	Madras University Act VII of 1923 received the assent of the Governor of Madras

## MARCH

1	S	Last day of registration for B.S.Sc., Part I Examination.
2	Sun	
3	M	<i>Ramzan</i> (Holiday).
4	Tu	
5	W	Ash Wednesday.
6	Th	
7	F	
8	S	
9	Sun	Last day for receiving attendance certificates for Intermediate, B.A., B.Sc., B.A. (Hons.) and O.T., Examinations.
10	M	Last day for receiving attendance certificates for F.E. and B.E. Examinations.
11	Tu	
12	W	
13	Th	
14	F	
15	S	
16	Sun	Last day for receiving attendance certificates for Matric. Examination.
17	M	
18	Tu	
19	W	Last day for receiving attendance certificates for B.Sc. Ag., L.T. and Diploma in Economics Examinations.
20	Th	
21	F	The Indian Universities Act, 1904, received the assent of the Governor-General.
22	S	Meeting of Syndicate
23	Sun	
24	M	* Matric., Inter., B.A., B.A. (Hons.), M.A., B.Sc., Engineering and O.T. Examns.
25	Tu	
26	W	
27	Th	
28	F	
29	S	Madras University Act, VII of 1923 received the assent of the Governor-General.
30	Sun	
31	M	<i>Telugu New Year's Day</i> . (Holiday).

\* Subject to alteration to be notified in the Gazette in November 1929.



## APRIL

1	Tu	Hindu University, Benares, Incorporated, 1916.
2	W	
3	Th	
4	F	
5	S	
6	Sun	
7	M	* B.Sc. Ag., M.D. and M.S. Examinations. Last day for receiving attendance certificates for F.L., B.L. and B.S.Sc., Part I Examinations. Sri Rama Navami.
8	Tu	
9	W	
10	Th	
11	F	
12	S	Meeting of Syndicate.
13	Sun	<i>Tamil New Year's Day</i> (Holiday)
14	M	* L. T., B. S. Sc. (Part I), Diploma in Midwifery and Diploma in Economics Examinations.
15	Tu	Last day of registration for the Pre-Registration, First, Second and Final Medical Examinations.
16	W	
17	Th	<i>Easter Holidays</i> (from 17th to 22nd inclusive)
18	F	.. (Good Friday).
19	S	..
20	Sun	.. (Easter Sunday).
21	M	..
22	Tu	..
23	W	Office re-opens. F. L. and B. L. Examns.
24	Th	
25	F	
26	S	<i>Last Saturday</i> (Holiday). Andhra University, Inaugurated, 1926.
27	Sun	
28	M	Publication of B.S.Sc. (Part I) Examination results.
29	Tu	
30	W	

\* Subject to alteration to be notified in the Gazette in November 1929.

## MAY

1	Th	The Madras University Act, 1928, came into force. <b>University of Delhi, Incorporated, 1922.</b>
2	F	
3	S	Meeting of Syndicate
4	Su	
5	M	Publication of results of B.A. (Hons) Final, M.A., B.Sc. Ag., Engineering, M.D., M.S. and Diploma in Midwifery Examinations.
6	Tu	<b>Accession of King George V, 1910.</b>
7	W	
8	Th	
9	F	
10	S	<i>Bakrid</i> (Holiday).
11	Su	
12	M	
13	Tu	
14	W	
15	Th	Annamalai University Act, 1928, all Sections came into force.
16	F	
17	S	
18	Su	
19	M	Publication of results of Matric. and Intermediate Examinations.
20	Tu	
21	W	Madras University—Appointment of the First Vice-Chancellor under the Act of 1928.
22	Th	
23	F	
24	S	<i>Empire Day</i> (Holiday).
25	Su	
26	M	Last day for receiving attendance certificates for the Pre-Registration, First, Second and Final Medical Examinations. Publication of results of B.A., B.A. (Hons.) Preliminary, B.Sc., L.T., O.T. and Diploma in Economics Examinations. Queen Mary Born, 1867.
27	Tu	
28	W	
29	Th	<i>Ascension Day</i> (Holiday).
30	F	
31	S	<i>Last Saturday</i> (Holiday).

## JUNE

1	Sun	Last day of registration for B.S.Sc. Part II Examination.
2	M	Pre-Registration, First, Second and Final Medical Examinations. Publication of results of F.L. and B.L. Examinations.
3	Tu	King George V Born, 1865, (Holiday).
4	W	University of Nagpur, Incorporated, 1923.
5	Th	
6	F	
7	S	
8	Sun	<i>Muharram</i> (Holiday).
9	M	
10	Tu	
11	W	
12	Th	
13	F	
14	S	
15	Sun	
16	M	
17	Tu	
18	W	
19	Th	
20	F	Publication of the results of the Pre-Registration, First and Second M.B.B.S. Examinations.
21	S	
22	Sun	
23	M	R.R.H. The Prince of Wales Born, 1894.
24	Tu	
25	W	
26	Th	
27	F	
28	S	<i>Last Saturday</i> (Holiday).
29	Sun	
30	M	

## JULY

1	Tu	
2	W	
3	Th	
4	F	
5	S	Publication of results of Final Medical Examination.
6	Sun	
7	M	
8	Tu	
9	W	
10	Th	
11	F	
12	S	
13	Sun	
14	M	Last day for receiving attendance certificates for B.S.Sc., Part II Examination.
15	Tu	Last day of registration for September Intermediate, B.A., B.A. (Hons.) Preliminary, B.Sc. (Part I), L.T., F.L., B.L. and Diploma in Midwifery Examinations. Last day for receiving attendance certificates for Diploma in Midwifery Examination.
16	W	
17	Th	
18	F	University of Bombay, Incorporated, 1857.
19	S	Meeting of Syndicate.
20	Sun	
21	M	M.L. and B.S.Sc. Part II Examinations.
22	Tu	University of Mysore, Incorporated, 1916.
23	W	
24	Th	
25	F	
26	S	Last Saturday (Holiday).
27	Sun	
28	M	
29	Tu	
30	W	
31	Th	

## AUGUST

1	F	
2	S	
3	Sun	
4	M	
5	Tu	
6	W	
7	Th	
8	F	<i>Barawafat</i> (Holiday).
9	S	<i>Avani Avittam</i> (Holiday).
10	Sun	
11	M	Publication of the results of B.S.Sc. Part II Examination.
12	Tu	
13	W	
14	Th	
15	F	Assumption Day.
16	S	
17	Sun	
18	M	
19	T	<i>Sri Jayanthi</i> (Holiday). Last day for receiving attendance certificates for September Arts Examinations, B.Sc. (Part I), and L.T. Examinations.
20	W	
21	Th	
22	F	
23	S	Meeting of Syndicate.
24	Sun	
25	M	
26	Tu	
27	W	<i>Vinayaka Chathurthi</i> (Holiday).
28	Th	
29	F	
30	S	<i>Last Saturday</i> (Holiday).
31	Sun	

## SEPTEMBER

1	M	Last day for receiving applications for pass certificates of Matric. and Inter. Examinations of March 1930. Publication of results of M. L. Degree Examination.
2	Tu	
3	W	
4	Th	
5	F	University of Madras, Incorporated, 1857.
6	S	
7	Sun	
8	M	The Indian Universities Act, 1904, came into force in the University of Madras, 1904. Inter., B.A., B.A. (Hons.) Prelim., and B.Sc. (Part I) Examinations.
9	Tu	
10	W	
11	Th	L. T. Degree Examination.
12	F	
13	S	
14	Sun	
15	M	Last day for receiving attendance certificates for Oct. F.L. and B.L. Examinations.
16	Tu	
17	W	
18	Th	
19	F	
20	S	
21	Sun	
22	M	Mahalaya Amavasai (Holiday).
23	Tu	
24	W	
25	Th	
26	F	
27	S	Last Saturday (Holiday).
28	Sun	
29	M	
30	Tu	

## OCTOBER

1	W	<i>Ayuda Pujah</i> (Holiday). <b>University of Patna, Incorporated, 1917.</b>
2	Th	
3	F	
4	S	
5	Sun	
6	M	F.L. and B.L. Examinations.
7	Tu	Lunar Eclipse.
8	W	
9	Th	
10	F	
11	S	
12	Sun	
13	M	Diploma in Midwifery Examination.
14	Tu	<b>University of Punjab, Incorporated, 1882.</b>
15	W	Last day of registration for Pre-Registration, First, Second, and Final Medical Examinations.
16	Th	
17	F	
18	S	Meeting of Syndicate.
19	Sun	
20	M	Publication of results of Inter., B.A., B.A. (Hons.) Prelim., B.Sc. (Part I) and L.T. Examinations.
21	Tu	<i>Deepavali</i> (Holiday).
22	W	
23	Th	
24	F	
25	S	<i>Last Saturday</i> (Holiday).
26	Sun	
27	M	
28	Tu	
29	W	
30	Th	
31	F	

# NOVEMBER

1	S	
2	Sun	
3	M	Publication of results for the Diploma in Midwifery Examination.
4	Tu	
5	W	
6	Th	
7	F	
8	S	
9	Sun	
10	M	Publication of results of F.L. and B.L. Exams.
11	Tu	
12	W	
13	Th	
14	F	
15	S	
16	Sun	University of Allahabad, Incorporated, 1887.
17	M	
18	Tu	
19	W	
20	Th	
21	F	
22	S	Meeting of Syndicate.
23	Sun	
24	M	Last day for receiving attendance certificates for Pre-Registration, First, Second and Final Medical Exams.
25	Tu	
26	W	
27	Th	
28	F	
29	S	<i>Last Saturday (Holiday).</i>
30	Sun	Last day of registration for B.A. (Hons.) Final, M.A. and O.T. Examinations.



## DECEMBER

1	M	Last day of registration for B.S.Sc. Part I., M.Sc. Ph.D., D.Sc. LL.D., M.O.L. and M.A. Degree in Research Exams. Publication in the "Gazette of India" in 1904. of the Chancellor's Declaration that the Body Corporate of the University of Madras had been constituted in accordance with the provisions of the Indian Universities Act, 1904. University of Rangoon and Muslim University, Aligarh, Incorporated, 1920.		
2	Tu	Pre-Registration, First, Second and Final Medical Examinations.		
3	W			
4	Th			
5	F			
6	S			
7	Sun	Last day of registration for Inter., B.A., B.Sc. and B.A. (Hon). Prelim. Exams. University of Lucknow, Incorporated, 1920.		
8	M			
9	Tu			
10	W			
11	Th			
12	F			
13	S			
14	Sun			
15	M			
16	Tu			
17	W	Meeting of Syndicate. Last day of registration for Matric. Examination. Publication of the results of Pre-Registration, First, Second and Medical Examinations.		
18	Th			
19	F			
20	S			
21	Sun	Christmas Vacation (Holiday)		
22	M			
23	Tu			
24	W			
25	Th	Do.	do.	Christmas Day.
26	F	Do.	do.	
27	S	Do.	do.	
28	Sun			
29	M	Do.	do.	
30	Tu	Do.	do.	
31	W	Do.	Vaikunta Ekadasi.	

# MEMBERS OF THE UNIVERSITY AUTHORITIES

## THE SENATE.

### CLASS I—Ex-Officio Members.

1. His Excellency the Hon'ble Sir Norman Edward Marjoribanks; K.C.I.E., C.S.I., Chancellor of the University, Government House, Madras.
2. The Hon'ble Mr. P. Subbarayan, M.A., B.C.L., LL.D., *Barrister-at-Law*, M.L.C., Pro-Chancellor of the University, 'Fairlawns,' Egmore, Madras.
3. M.R.Ry. Diwan Bahadur K. Ramunni Menon Avl., M.A., Vice-Chancellor of the University of Madras, 'Lakshmisadan', Vepery, Madras.
4. R. G. Grieve, Esq., M.A., F.R.G.S., Director of Public Instruction, Nungambakam, Cathedral P.O., Madras.
5. Lt. Col. J. D. W. Megaw, C.I.E., I.M.S., Surgeon-General with the Government of Madras, S1, Mount Road, Cathedral P.O., Madras.
6. L. H. Greg, Esq., Chief Engineer, P.W.D., Chepauk, Triplicane, Madras.
7. M.R.Ry. Alladi Krishnaswami Ayyar Avl., B.A., B.L., M.L.C., Advocate-General, 'Ekambara Nivas', Luz, Mylapore, Madras.
8. M.R.Ry. Diwan Bahadur A. Appadurai Pillai Avl., M.A., Director of Industries, Chepauk, Triplicane, Madras.
9. R. D. Anstead, Esq., C.I.E., M.A., Director of Agriculture, Chepauk, Triplicane, Madras.
10. The Rev. A. G. Hogg, M.A., D.Litt., Principal, Madras Christian College, College House, Esplanade, Madras.
11. The Rev. F. Bertram, S.J., B.A., D.D., Principal, Loyola College, Cathedral Post, Madras.
12. M.R.Ry. Rao Bahadur K. Chinnatambi Pillai Avl., B.A., L.T., Principal, Pachaiyappa's College, 'Corona Villa,' Egmore, Madras.
13. P. F. Fyson, Esq., M.A., Principal, Presidency College, Chepauk, Triplicane, Madras.
14. E. W. Green, Esq., M.A., Principal, Government Muhammadan College, Mount Road, Madras
15. Miss D. de la Hey, M.A., Principal, Queen Mary's College, Mylapore, Madras,

16. Miss E. McDougall, M.A., D.Litt., Principal, Women's Christian College, Nungambakkam, Cathedral P.O., Madras.
17. M.R.Ry. A. M. Varki Avl., M.A., B.L., Principal, Union Christian College, Alwaye.
18. The Rev. L. F. Veyseyre, Principal, St. Joseph's College, Bangalore.
19. The Rev. Matthew K. Purakkal, M.A., Principal, St. Berchmann's College, Chengannachery.
20. M.R.Ry. S. K. Subrahmanya Ayyar Avl., M.A., L.T., Principal, Maharaja's College, Ernakulam.
21. The Rev. Sister Beatrice, A.C., M.A., Principal, St. Teresa's College, Ernakulam.
22. K. Burnett, Esq., M.A., Principal, Nizam's College, Hyderabad (Deccan).
23. S. R. U. Savoor, Esq., M.A., D.Sc., Principal, Government College, Kumbakonam.
24. The Rev. B. S. Stoffer, M.A., B.D., Principal, American College, Madura.
25. M.R.Ry. M. V. N. Subba Rao Garu, M.A., Principal, Madura College, Madura.
26. The Rev. A. Ambrozzi, S.J., B.A., D.D., F.R.H.S., Principal, St. Aloysius' College, Kodialbail P.O., Mangalore.
27. The Rev. Sister M. Annunciata, A.C., B.A., Principal, St. Agnes' College, Kaukanady P.O., Mangalore.
28. The Rev. N. G. Ponnayya, B.A., L.T., Ag. Principal, Findlay College, Mannargudi.
29. The Rev. A. Gnanaprakasam, S.J. B.A., Principal, St. Xavier's College, Palamcottah (Tinnevely).
30. H. C. Papworth, Esq., M.A., Principal, Government Victoria College, Palghat.
31. M.R.Ry. P. C. Chakko Avl., M.A., Principal, Hindu College, Tinnevely.
32. The Rev. C. S. James, M.A., Principal, Bishop Heber College, Teppakulam, Trichinopoly.
33. The Rev. A. Bonhoure, S.J., Principal, St. Joseph's College, Teppakulam, Trichinopoly.
34. M.R.Ry. V. Saranatha Ayyangar Avl., M.A., Principal, National College, Teppakulam, Trichinopoly.

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35. The Rev. J. Palocaren, M.A., Principal, St. Thomas' College, Trichur.
  36. M.R.Ry. C. V. Chandrasekharan Ayl., M.A., Principal, Maharaja's College of Arts, Trivandrum.
  37. J. Pryde, Esq., M.A., B.Sc., Principal, Maharaja's College of Science, Trivandrum.
  38. Miss F. E. Grose, M.A., Principal, Maharajah's College for Women, Trivandrum.
  39. Miss J. M. Gerrard, M.A., Principal, Lady Willingdon Training College, Triplicane, Madras.
  40. Miss L. Devasahayam, B.A., L.T., Principal, St. Christopher's Training College, Branson's Gardens, Kilpauk, Madras.
  41. R. W. Ross, Esq., M.A., Principal, Teachers' College, Saidapet (Madras).
  42. M. Ratnaswami, Esq., M.A., *Barrister-at-Law*, Principal, Law College, Sterling Road, Nungambakkam, Madras.
  43. Lt.-Col. C. A. F. Hingston, C.I.E., M.D., I.M.S., Principal, Madras Medical College, Pantheon Road, Egmore, Madras.
  44. M.R.Ry. G. Nagaratnam Ayyar Ayl., B.A., B.E., Principal, College of Engineering, Guindy, Saidapet, (Madras).
  45. M.R.Ry. Rao Bahadur S. Krishnaswami Ayyangar Ayl. M.A., Ph.D., M.R.A.S., F.R.H.S., Professor of Indian History and Archaeology, University of Madras, 143, Brodies Road, Mylapore, Madras.
  46. M.R.Ry. P. J. Thomas Ayl., M.A., B.Litt., Ph.D., F.R.E.S., Professor of Indian Economics, University of Madras, 2/8, Jeremiah Road, Vepery, Madras.
  47. M.R.Ry. C. Kunhan Raja Ayl., M.A., D. Phil., Professor, of Sanskrit; University of Madras, "Govind Vilas", Theosophical Society, Adyar, Madras.
  48. The Rev. P. Carty, S.J., B.Sc., D.D., St. Joseph's College, Teppakulam, Trichinopoly.
  49. W. Erlam Smith, Esq., M.A., Professor, Presidency College, Triplicane, Madras.
  50. M.R.Ry. K. A. Nilakanta Sastri Ayl., M.A., Professor, National College, Teppakulam, Trichinopoly.

CLASS II—LIFE MEMBER.

51. The Hon'ble Diwan Bahadur Rajah Sir S. Rm. M. Annamalai Chettiar, Kt., Rajah of Chettinad, Natana Vilas, Vepery, Madras.

(CLASS III—OTHER MEMBERS).

(Three years from 5th March 1927).

(1) *Thirty Members elected by the Registered Graduates.*

52. M.R.Ry. Rao Bahadur A. Lakshmanaswami Mudaliyar Avl., B.A., M.D., Asst. Superintendent, Government Hospital for Women and Children, Egmore, Madras.
53. The Hon. Rao Bahadur G. A. Natesan, B.A., Editor, "Indian Review," Esplanade, Madras.
54. M.R.Ry. S. Satyamurti Avl., B.A., B.L., M.L.C., Advocate, Triplicane, Madras.
55. M.R.Ry. A. Sivarama Menon Avl., B.A., B.L., Advocate, No. 8, Hall's Road, Egmore, Madras.
56. M.R.Ry. K. V. Krishnaswami Ayyar, Avl., B.A., B.L., Advocate, No. 6, North Mada Street, Mylapore, Madras.
57. M.R.Ry. T. S. Ramaswami Ayyar Avl., B.A., B.L., Advocate, Ranganatha Vilas, Mylapore, Madras.
58. M.R.Ry. K. C. Mammen Mappillai Avl., B.A., Planter and Member, Travancore Legislative Council, Alleppey (Travancore).
59. M.R.Ry. P. Venkataramana Rao Nayudu Garu, B.A., B.L., Advocate, 15, Victoria Crescent, Egmore, Madras.
60. M.R.Ry. Burra Satyanarayana Garu, B.A., B.L., Advocate, Peter's Road, Royapet, Madras.
61. M.R.Ry. A. Gopala Menon Avl., M.A., B. Com., Taitcaud, Trivandrum.
62. M.R.Ry. S. K. Yegnanarayana Ayyar Avl., M.A., Professor, Pachaiyappa's College, 6, Vadagoor Selva Vinayagarcoil Street, Mylapore, Madras.
63. M.R.Ry. K. Srinivasapatrachari Avl., M.A., L.T., Principal, Government College, Coimbatore.
64. M.R.Ry. Rao Bahadur M. Kesava Pai Avl., M.D., C.M., 25, Harris Road, Mount Road, Madras.

65. M.R.Ry. M. R. Guruswami Mudaliyar, Avl., B.A., M.D., C.M., Sladen's Garden, Kilpauk, Madras.
66. M.R.Ry. S. Swaminadha Ayyar Avl., M.A., B.Sc., LL.B., Ph.D., *Barrister-at-Law*, 118, Armenian St., G.T., Madras.
67. M.R.Ry. K. Bhashyam Avl., B.A., B.L., Advocate, Champaka Vilas, Luz, Mylapore, Madras.
68. M.R.Ry. Rao Bahadur P. V. Seshu Ayyar Avl., B.A., L.T., East Peruvemba, Tattamangalam P.O., Palghat. . .
69. M.R.Ry. P. A. Ganesan Avl., B.A., L.T., 'Surabhi,' Tennore Road, Trichinopoly.
70. M.R.Ry. K. Balasubrahmanyam Avl., B.A., B.L., Advocate, 'The Asrama', Luz, Mylapore, Madras.
71. Miss Serena E. J. Zacharias, B.A., L.T., Superintendent, Govt. Training and Secondary School for Girls, Coimbatore.
72. M.R.Ry. M. S. Sundaresvaran Avl., M.A., L.T., 8, Nallatambi Mudali Street, Triplicane, Madras.
73. M.R.Ry. K. Velu Pillai Avl., B.A., B.L., Professor, Law College, Trivandrum.
74. M.R.Ry. Rao Bahadur M. R. Ramaswami Sivan Avl., B.A., Dip. Ag., Srinivasapuram, Lawley Road P.O., Coimbatore.
75. The Hon. Mr. V. Ramdas Pantulu, B.A., B.L., 'Farhat Bagh', Cutcherry Road, Mylapore, Madras.
76. M.R.Ry. A. S. Vaidyanatha Ayyar Avl., M.A., L.T., Lecturer, Government College, Kumbakonam.
77. M.R.Ry. T. S. Venkatesa Ayyar Avl., M.A., M.L., Advocate, 34, Thambu Chetty Street, G.T., Madras.
78. M.R.Ry. R. Srinivasan Avl., M.A., Professor, Maharaja's College of Science, Taikaud, Trivandrum.
79. M.R.Ry. T. V. Muttukrishnan Avl., B.A., B.L., Advocate, 'Pammal House', Vepery, Madras.
80. M.R.Ry. T. R. Venkatarama Sastri Avl., C.I.E., B.A., B.L., 'Padma Vilas', Luz, Mylapore, Madras.
81. Vacant.

(2) (a) *Ten Members elected by the Academic Council.*

82. M.R.Ry. M. S. Sabhesan Avl., M.A., 18, Nallatambi Mudali Street, Triplicane, Madras.

83. M. A. Candeth, Esq., O.B.E., B.A., LL.B., *Barrister-at-Law*, 12, College Road, Nungambakkam, Madras.
84. Ferrand E. Corley, Esq., M.A., 'Wingate', Brodie's Road, Mylapore, Madras.
85. Miss C. K. Kausalya, B.A., L.T., B.Sc., *Queen Mary's College*, Mylapore, Madras.
86. M.R.Ry. K. C. Chakko Avl., B.A., D.Sc., *College of Engineering*, Guindy, Saidapet P.O., Madras.
87. M.R.Ry. P. John Varughis Avl., M.A., *Wesley College*, Royapet, Madras.
88. M.R.Ry. P. Subrahmanya Ayya Garu, B.A., L.T., 124, Vellala Street, Purasawakkam, Madras.
89. Major K. Gopinatha Pandalai, M.B. & C.M., F.R.C.S., I.M.S., 'Binfield', Poonamalle Road, Kilpauk, Madras.
90. M.R.Ry. M. V. Narayana Rao Garu, B.A., B.L., 8, Chinna Reddi St., Egmore, Madras.
91. M.R.Ry. C. S. Srinivasachariyar Avl., M.A., 29, Krishnappa Naick Sreet, G.T., Madras.

(2) (b) *Ten Members elected by the Council of Affiliated Colleges.*

92. M.R.Ry. C. J. Varkey. Avl., M.A., *St. Aloysius' College*, Kodialbail P.O., Mangalore.
93. M.R.Ry. P. V. Alexander Avl., M.A., L.T., *Government Victoria College*, Palghat.
94. M.R.Ry. A. Aravamudu Ayyangar Avl., M.A., *Annamalai University*, Annamalai Nagar, Chidambaram.
95. M.R.Ry. Rao Sahib M. Abboy Nayudu Garu, *Vice-President*, District Board, Madura.
96. M.R.Ry. V. J. Joseph Avl., M.A., *St. Aloysius' College*, Kodialbail P.O., Mangalore.
97. M.R.Ry. P. S. Ramakrishna Ayyar Avl., M.A., L.T., *Maharaja's College*, Ernakulam.
98. M.R.Ry. S. N. Dorai Rajah Avl., M.L.C., *The Palace*, Pudukkottai (Trichinopoly).
99. M.R.Ry. P. A. Subrahmanya Ayyar Avl., M.A., *Annamalai University*, Annamalai Nagar, Chidambaram.

100. M.R.Ry. N. R. Subba Ayyar Avl., M.A., L.T., Government College, Coimbatore.
101. P. L. Stephen, Esq., M.A., St. Xavier's College, Palamcottah.

(3) *Twelve Members elected by the Legislative Council.*

102. M.R.Ry. C. V. Venkataramana Ayyangar Avl., B.A., B.L., M.L.C., 'Dharma Vilas', Coimbatore.
103. M.R.Ry. K. Koti Reddi Garu, *Barrister-at-Law*, M.L.C., Cuddapah.
104. M.R.Ry. J. A. Saldanha Avl., B.A., B.L., M.L.C., 'Balmatta', Kankannady P.O., S. Kanara.
105. M.R.Ry. T. Adinarayana Chetti Avl., *Barrister-at-Law*, M.L.C., 'Extension', Salem.
106. M.R.Ry. C. Gopala Menon Avl., F.I.C., A.I.B., M.L.C., 'Kelstone', Pantheon Road, Egmore, Madras.
107. M.R.Ry. C. Venkatarangam Nayudu Garu, M.L.C., 'Lakshmi Sadan', Ritherdon Road, Vepery, Madras.
108. M.R.Ry. S. Arpudaswami Udayar Avl., B.A., L.T., M.L.C., 31, Allimal Street, Teppakulam, Trichinopoly.
109. M.R.Ry. Sami Venkatachalam Chetti Garu, M.L.C., 43, Strotten Muthiah Mudali Street, G.T., Madras.
110. M.R.Ry. Rao Bahadur B. Muniswami Nayudu Garu, B.A., B.L., M.L.C., Chittoor (Chittoor District).
111. M.R.Ry. L. K. Tulasiram Avl., B.A., B.L., M.L.C., East Veli Street, Madura.
112. M.R.Ry. B. S. Mallya Avl., M.B. & C.M., M.L.C., Male Asylum Road, Egmore, Madras.
113. M.R.Ry. P. Anjaneyalu Garu, B.A., M.L.C., Pleader, Tenali (Guntur District).

(4) (a) *Five persons elected by the Principals of Second Grade Colleges.*

114. M.R.Ry. G. K. Chettur Avl., M.A., Principal, Govt. College, Mangalore.
115. M.R.Ry. R. M. Savur Avl, B.A., District Educational Officer, Salem.
116. M.R.Ry. T. K. Venkataraman Avl., M.A., L.T., District Educational Officer, Tanjore.



117. M.R.Ry. N. Tyagaraja Ayyar Avl., M.A., L. T., Principal, Maharaja's College, Pudukottah (Trichy).  
 118. The Rev. H. P. Young, M.A., B.Litt., Principal, St. John's College, Palamcottah.

(4) (b) *Three persons elected by the Headmasters of Secondary Schools.*

119. M.R.Ry. S. K. Devasikhamani Avl., B.A., I.T., Headmaster, Bishop Heber College School, Teppakulam, Trichinopoly.  
 120. M.R.Ry. P. A. Subrahmanya Ayyar Avl., B.A., L.T., Headmaster, Hindu High School, Triplicane, Madras.  
 121. M.R.Ry. N. S. Venkatarama Ayyar, Avl., M.A., L.T., Headmaster, Sri Minakshi Sundaresvara Vidyasala, Karaikudi (Ramnad District).

\* (5) *Four persons elected by the Councillors of the Corporation of Madras.*

122. M.R.Ry. R. Madanagopal Naidu Garu, B.A., B.L., Advocate, 40, 41, Audiappa Naick Street, George Town, Madras.  
 123. M.R.Ry. Diwan Bahadur G. Narayanaswami Chetti Garu, C.I.E., 'Gopathy Villa', San Thome, Mylapore; Madras, (31-10-1929).  
 124. M.R.Ry. Rao Bahadur P. T. Kumaraswami Chetti Garu, B.A., 1 & 2, Balu Mudali St., Tondiarpet; Madras; (31-10-1929).  
 125. M.R.Ry. A. Ramaswami Mudaliyar Avl., B.A., B.L., Lauder's Gate Road, Vepery, Madras.

\* (6) (a) *Members elected by the District Boards.*

126. M.R.Ry. A. Raghavalu Naidu Garu, President, Taluk Board, Ranipet, Attingal Village, Timiri Post, Walajah Taluk.  
 127. M.R.Ry. Rao Sahib L. C. Guruswami Avl., M.L.C., (Member, District Board, Chingleput), Cottappah House, Komaleswaranpet, Mount Road, Madras.

\*NOTE:—The date noted against some members under the heads (5), (6)-(a) and (6)-(b) is the date on which the members will ordinarily cease to be a member of the local body concerned and will *ipso facto* cease to be a member of the Senate within the term of the present Senate. The other members will continue to be members of the Senate till 4th March 1930.

128. M.R.Ry. A. Rajaratna Mudaliyar Avl., B.A., B.L.,  
Pleader, Cuddalore N.T. (S. Arcot Dt.), (6-9-1929).
129. M.R.Ry. K. Manathunainatha Desikar Avl., B.A.,  
Member, Tanjore District Board, Vadivalam P.O.,  
(Tanjore Dt.) (15-8-1929).
130. Vacant, (Trichinopoly.)
131. R. Foulkes, Esq., President, District Board, "Fisher's  
Gardens," Madura (16-7-1929).
132. M.R.Ry. T. C. Srinivasa Ayyangar Avl., B.A., B.L.,  
M.L.C., Madura.
133. M.R.Ry. Diwan Bahadur S. Kumaraswami Reddiyar  
Avl., B.A., B.L., M.L.C., President, District Board,  
Tinnevely, Palamecottah (31-1-1930).
134. Vacant, (Salem.)
135. M.R.Ry. S. N. Ponnai Gounder Avl., Member, District  
Board, Uppilipalayam, Coimbatore Dist. (30-1-30).
136. M.R.Ry. K. Belli Gowdar, Member, District Board,  
Ketti, (The Nilgiris.)
137. M.R.Ry. V. V. Rama Ayyer Avl., B.A., B.L., Vakil,  
Quilandy, (Malabar).
138. M.R.Ry. Rao Bahadur B. Mahabale Hegle, Avl.,  
B.A., B.L., President, District Board, Mangalore  
(South Kanara).

*\*(6) (b) Members elected by the Municipalities in each District.*

139. Haji Abdul Raheem Sahib Bahadur, Chairman, Muni-  
cipal Council, Fort, Vaniyambadi (North Arcot  
District), (1-11-29).
140. Khan Bahadur S. K. Abdul Razack Sahib Bahadur,  
M.L.C., Razack Munzil, Armenian Road, Saidapet  
(Chingleput Dt.).
141. M.R.Ry. Rao Bahadur R. K. Venugopal Nayudu Garu,  
B.A., B.L., Chairman, Municipal Council, Cudda-  
lore N.T., (S. Arcot), (1-11-1929).
142. M.R.Ry. I. Kumaraswami Pillai, Avl., Municipa'  
Councillor, Tanjore.
143. P. Sherfuddin Sahib Bahadur, M.A., B.L., Municipal  
Councillor, Trichinopoly.
144. M.R.Ry. R.S. Nayudu Garu, *Barrister-at-Law*, Chair-  
man, Municipal Council, Madura.

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\*The Foot-note in the previous page.

145. M.R.Ry. K. A. M. A. Kaliappa Nadar Avl., Merchant and Banker, Sivakasi (Ramnad Dt.). (1-11-29).  
 146. M.R.Ry. R. P. Sethu Pillai Avl., B.A., B.L., High Court Vakil, Tinnevely.  
 147. M.R.Ry. M. V. Ramaswami Ayya Avl., B.A., B.L., Municipal Councillor, Salem (31-10-29).  
 148. M.R.Ry. V. Arunachalam Chettiyar Avl., Municipal Councillor, Oppanakara Street, Coimbatore. (31-10-29).  
 149. M.R.Ry. M. N. Boralingiah Gowdar Avl., Municipal Councillor, Ootacamund, Fernhill (The Nilgris), (1-11-29).  
 150. M.R.Ry. A. P. Balaram Avl., Municipal Councillor and Medical Practitioner, Calicut (Malabar).  
 151. M.R.Ry. K. Sadashiva Rao Adiga Avl., B.A., B.L., Municipal Councillor, Mangalore (South Kanara). (31-10-29).

(7) (a) *Two Members elected by the  
Madras Chamber of Commerce.*

152. K. Kay, Esq., M.L.C., Messrs. Binny & Co., Madras, E.  
 153. H. F. P. Hearson, Esq., M.L.C., Messrs. Bombay Co., Ltd., Madras.

(7) (b) *Two Members elected by the South Indian  
Chamber of Commerce.*

154. M.R.Ry. V. C. Rangaswami Avl., B.A., Secretary, Madras Central Urban Bank, Luz, Mylapore, Madras.  
 155. M.R.Ry. C. M. Kothari Avl., B.A., LL.B., 144, Pop-ham's Broadway, Madras.

(8) *Two Members elected by the Landholders' Association.*

156. M.R.Ry. D. K. Venkataraghava Varma Garu, B.A., B.L., Assistant Secretary, Legislative Council Office, Fort St. George, Madras.  
 157. M.R.Ry. G. Krishna Rao Avl., Jaghirdar of Mylari-palayam, 'Kimberley', Kilpauk, Madras.

(11) *Thirty Members nominated by H. E. the Chancellor.*

158. The Right Rev. E. H. M. Waller, M.A., Sullivan's Gardens, Royapet, Madras.  
 159. Sir C. P. Ramaswami Ayyar, K.C.I.E., B.A., B.L., 'The Grove', Teynampet, Cathedral, Madras.

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94. Vacant, (Presidency College).
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96. M.R.Ry. D. Sadasiva Reddi Garu, M.A., Government Muhammadan College, Mount Road, Madras.
97. Muhammad Sahib Bahadur, M.A., Govt. Muhammadan College, Mount Road, Madras.
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(\*) Three years from 19th September 1928.

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- (a) 100. M.R.Ry. N. Sundaram Ayyar Avl., M.A., Loyola College, Nungambakkam, Cathedral Post, Madras.
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105. M.R.Ry. S. A. Muliyl Avl., B.A., Women's Christian College, Nungambakkam, Cathedral, Madras.
106. Miss S. Senevaratne, M.A., Women's Christian College, Nungambakam, Cathedral, Madras.
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118. Miss V. K. Black, B.Sc., St. Christopher's Training College, Branson's Garden, Kilpauk, Madras.
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(a) Three years from 19th September 1928.

(b) Three years from 17th August 1927.

119. M.R.Ry. T. Ekambaram Avl., M.A., Ph. D., Teachers' College, Saidapet (Madras).
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- (l) 153. M.R.Ry. S. Rama Ayyar Avl., M.A., L.T., St. Thomas' College, Trichur.
- 

- (c) Three years from 19th October 1926.
- (d) Three years from 16th October 1927.
- (e) Three years from 4th July 1928.
- (f) Three years from 29th March 1928.
- (g) Three years from 1st November 1927.
- (h) Three years from 14th July 1927.
- (i) Three years from 4th July 1928.
- (j) Three years from 28th June 1926.
- (k) Three years from 25th July 1927.
- (l) Three years from 4th July 1928.

- (m) 154. M.R.Ry. M. S. Srinivasan Avl., M.A., National College, Trichinopoly.
- (u) 155. Vacant, Maharaja's College of Arts, Trivandrum.
156. M.R.Ry. S. Ramakrishna Ayyar Avl., M.A., Maharaja's College of Science, Trivandrum.
- (o) 157 Vacant, Maharaja's College for Women, Trivandrum.
- 158 M.R.Ry. K. P. Ukkandan Unni Nayar Avl., M.A., L.T., Training College, Trivandrum.
159. M.R.Ry. T. K. Velu Pillai Avl., B.A., B.L., Law College, Trivandrum.
160. M.R.Ry. P. H. Rama Reddi Garu, M.A., B.Sc., Agricultural College, Lawley Road P.O., Coimbatore.
- Teachers of the University co-opted by the members of the Academic Council.*
161. M.R.Ry. S. S. Suryanarayana Sastri Avl., M.A., B.Sc., *Barrister-at-Law*, Reader in Indian Philosophy, 'Sri Ranga Villa', Egmore, Madras.
162. M.R.Ry. R. Vaidyanathaswami Avl., M.A., D.Sc., Reader in Mathematics, Thambu Villa, Egmore, Madras.
163. M.R.Ry. P. S. Lokanathan Avl., M.A., Reader in Economics, 142, Big Street, Triplicane, Madras.
164. Muhammad Hussain Nainar Sahib Bahadur, M.A., LL.B., Senior Reader in Islamic Section, University Oriental Research Institute, Thambu Villa, Egmore, Madras.
165. M.R.Ry. K. C. Ramakrishnan Avl., M.A., Lecturer in Economics, 10, Nili Viraswami Chety Street, Triplicane, Madras.
166. M.R.Ry. C. Achyuta Menon Avl., B.A., Reader in Malayalam, University Oriental Research Institute, Thambu Villa, Egmore, Madras.

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(m) Three years from 14th July 1927.

(u) Three years from 6th June 1928.

(o) Three years from 4th July 1928.

## STANDING COMMITTEE OF THE ACADEMIC COUNCIL.

1. M.R.Ry. Diwan Bahadur K. Ramunni Menon Avl.,  
M.A., Vice-Chancellor.
  2. The Rev. A. G. Hogg, M.A., D.Litt.
  3. The Rev. F. Bertram, s.J., B.A., D.D.
  4. W. Erlam Smith, Esq., M.A.  
(also President, Faculty of Science.)
- } Members of  
the Syndi-  
cate elected  
by the Aca-  
demic Coun-  
cil.
5. M.R.Ry. Rao Bahadur S. Krishnaswami Ayyangar  
Avl., M.A., Ph.D., M.R.A.S., F.R.H.S., (President,  
Faculty of Arts).
  6. Miss J. M. Gerrard, M.A., (President, Faculty of Teach-  
ing).
  7. M.R.Ry. M. Ratnaswami Avl., M.A., *Bar.-at-Law*,  
(President, Faculty of Law).
  8. Major K. G. Pandalai, M.B. & C.M., L.R.C.P., F.R.C.S.,  
M.R.C.S., I.M.S., (President, Faculty of Medicine).
  9. M.R.Ry. G. Nagaratnam Ayyar Avl., B.A., B.E., (Pre-  
sident, Faculty of Engineering).
  10. M.R.Ry. C. Tadulinga Mudaliyar Avl., F.L.S., (Presi-  
dent, Faculty of Agriculture).
  11. M.R.Ry. C. Gopala Menon Avl., F.I.C., A.I.B., M.L.C.  
(President, Faculty of Commerce).
  12. P. F. Fyson, Esq., (M.A.), (President, Faculty of  
Fine Arts).

\**Vide* Resolution of the Academic Council, dated 8th August 1924.



## **THE COUNCIL OF AFFILIATED COLLEGES**

### **EX-OFFICIO MEMBERS.**

1. M.R.Ry. Diwan Bahadur K. Ramunni Menon Avl., M.A., Vice-Chancellor of the University of Madras.
2. M.R.Ry. A. M. Varkì Avl., M.A., B.L., Principal, Union Christian College, Alwaye.
3. The Rev. L. F. Veyseyre Principal, St. Joseph's College, Bangalore.
4. The Rev. Matthew K. Purakkal, M.A., Principal, St. Berchman's College, Chengannacherry.
5. M.R.Ry. S. K. Subrahmanya Ayyar Avl., M.A., L.T., Principal, Maharaja's College, Ernakulam.
6. The Rev. Sister Beatrice, A.C., M.A., Principal, St. Teresa's College, Ernakulam.
7. K. Burnett, Esq., M.A., Principal, Nizam's College, Hyderabad (Deccan).
8. S. R. U. Savor, Esq., M.A., Principal, Government College, Kumbakonam.
9. The Rev. B. S. Stoffer, M.A., B.D., Principal, American College, Madura.
10. M.R.Ry. M. V. N. Subba Rao Garu, M.A., Principal, Madura College, Madura.
11. The Rev. A. Ambrozzi, s.j., B.A., D.D., Principal, St. Aloysius' College, Kodialbail P.O., Mangalore.
12. The Rev. Sister M. Annunciata, A.C., B.A., Principal, St. Agnes' College, Mangalore.
13. The Rev. N. G. Ponnayya, B.A., L.T., Principal, Findlay College, Mannargudi.
14. The Rev. A. Gnanaprakasam, s.j., B.A., Principal, St. Xavier's College, Palamecottah.
15. H. C. Papworth, Esq., M.A., Principal, Government Victoria College, Palghat.
16. M.R.Ry. P. C. Chakko Avl., M.A., Ag. Principal, Hindu College, Tinnevely.
17. The Rev. C. S. James, M.A., Principal, Bishop Heber College, Teppakulam, Trichinopoly.
18. The Rev. A. Bonhoure, s.j., Principal, St. Joseph's College, Teppakulam, Trichinopoly.

19. M.R.Ry. V. Saranatha Ayyangar Avl., M.A., Principal, National College, Teppakulam, Trichinopoly.
20. The Rev. J. Palocaren, M.A., Principal, St. Thomas' College, Trichur.
21. M.R.Ry. C. V. Chandrasekharan Avl., M.A., Principal, Maharajah's College of Arts, Trivandrum.
22. J. Pryde, Esq., M.A., B.Sc., Principal, Maharaja's College of Science, Trivandrum.
23. Miss F. E. Grose, M. A., Principal, Maharaja's College for Women, Trivandrum.

## OTHER MEMBERS.

(3 years from 5th March 1927).

*Elected by the Principals of second-grade Colleges.*

24. M.R.Ry. Govinda Krishna Chettur Avl., M.A., Principal, Government College, Mangalore.
25. M.R.Ry. K. Srinivasapatrachari Avl., M.A., L.T., Principal, Government College, Coimbatore.
26. M.R.Ry. N. Tyagaraja Ayyar Avl., M.A., L.T., Principal, Maharaja's College, Pudukottah (Trichy).
27. The Rev. H. P. Young, M.A., B.Litt., Principal, St. John's College, Palamcottah.
28. Vacant.

*Elected by the District Boards and the Municipalities.*

29. M.R.Ry. V. S. Padmanabha Mudaliyar Avl., B.A., B.L., High Court Vakil, Vellore (North Arcot).
30. M.R.Ry. Diwan Bahadur G. Narayanaswami Chetti Garu, C.I.E., "Gopathy Villa," San Thome, Mylapore, Madras (Chingleput).
31. M.R.Ry. V. J. Samu Pillai Avl., B.A., B.L., Pleader, Cuddalore N.T., (South Arcot).
32. M.R.Ry. N. Tiruvengadatha Ayyangar Avl., B.A., B.L., Municipal Councillor, Kumbakonam.
33. M.R.Ry. K. S. Krishnamachariyar Avl., B.A., B.L., Municipal Councillor, Srirangam (Trichinopoly).
34. M.R.Ry. Rao Sahib M. Abboy Nayudu Garu, Vice-President, District Board, Madura.
35. M.R.Ry. K. Palaniswami Nadar Avl., Member, Municipal Council, Virudhunagar (Ramnad).

- 
36. M.R.Ry. Diwan Bahadur S. Kumaraswami Reddiyar  
Avl., B.A., B.L., M.L.C., President, District Board,  
Tinnevely, Palamcottah.
  37. M.R.Ry. A. Krishnaswami Chettiar Avl., Oppanakara  
Street, Coimbatore.
  38. M.R.Ry. S. P. Rajamanikka Pandaram Avl., Member,  
District Board, Salem.
  39. M.R.Ry. A. Ramamurti Avl., B.A., B.L., High Court  
Vakil, Ootacamund (The Nilgiris).
  40. M.R.Ry. A. P. Balaram Avl., Municipal Councillor and  
Medical Practitioner, Calicut (Malabar).
  41. M.R.Ry. N. Rajagopala Krishna Rao Avl., Member,  
District Board, Sri Vilas, Kadekar Buildings, Udipi  
(South Kanara).

*Elected by the Staff of the Affiliated first-grade Colleges.*

42. M.R.Ry. T. S. Venkataraman Avl., M.A., Union Chris-  
tian College, Alwaye.
- (a) 43. E. A. Smith, Esq., B.A., L.T., St. Joseph's College,  
Bangalore.
- (b) 44. M.R.Ry. P. R. Krishna Ayyar Avl., M.A., St.  
Berchman's College, Chengannacherry.
- (c) 45. M.R.Ry. N. R. Ramachandra Ayyar Avl., M.A.,  
L.T., Maharaja's College, Ernakulam.
- (d) 46. Miss C. Satur, M.A., L.T., St. Teresa's College,  
Ernakulam.
47. M.R.Ry. P. Ram Rao Garu, M.A., Nizam College,  
Hyderabad (Deccan).
48. M.R.Ry. K. R. Appalachariyar Avl., M.A., L.T., Govern-  
ment College, Kumbakonam.
49. M.R.Ry. S. Mahadeva Ayyar Avl., B.A., L.T., American  
College, Madura.
- (e) 50. M.R.Ry. P. S. Sankara Ayyar Avl., M.A., Madura  
College, Madura.
51. M.R.Ry. S. Ramachandra Ayyar Avl., M.A., St.  
Aloysius' College, Kodialbail P.O., Mangalore.

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(a) Three years from 18th October 1926.

(b) Three years from 16th October 1927.

(c) Three years from 4th July 1928.

(d) Three years from 29th March 1928.

(e) Three years from 1st November 1927.

- (f) 52. M.R.Ry. C. J. Varkey Avl., M.A. (St. Agnes' College), St. Aloysius' College, Kodialbail P.O., Mangalore.
53. M.R.Ry. T. I. Oommen Avl., M.A., B.L., Findlay, College, Mannargudi.
- (g) 54. P. L. Stephen, Esq., M.A., St. Xavier's College, Palamcottah (Tinnevely).
- (h) 55. Vacant, Government Victoria College, Palghat.
- (i) 56. M.R.Ry. V. Ponnuswami Pillai Avl., B.A. (Hons.), Hindu College, Tinnevely.
57. M.R.Ry. M. S. Srinivasa Ayyangar Avl., B.A., Bishop Heber College, Teppakulam, Trichinopoly.
58. The Rev. P. Carty, s.j., B.Sc., D.D., St. Joseph's College, Teppakulam, Trichinopoly.
- (j) 59. M.R.Ry. K. A. Nilakanta Sastri Avl., M.A., Professor, National College, Trichinopoly.
- (k) 60. M.R.Ry. T. R. Parameswara Ayyar Avl., M.A., St. Thomas' College, Trichur.
- (l) 61. M.R.Ry. K. Parameswaram Pillai, Avl., M.A., Maharaja's College of Arts, 'Nantiar Vitu,' Trivandrum.
62. M.R.Ry. K. R. Krishna Ayyar Avl., M.A., Maharaja's College of Science, Trivandrum.
- (m) 63. Srimati B. Anandavalli Amma, M.A., Maharaja's College for Women, Trivandrum.

*Nominated by H. E. the Chancellor under section 26 (1) (v) of the Act.*

64. R. G. Grieve, Esq., M.A., F.R.G.S., Ag. Director of Public Instruction, Nungambakam, Cathedral, Madras.
65. M.R.Ry. Rao Bahadur K. V. Rangaswami Ayyangar Avl., M. A. M.R.A.S., F.R.H.S., Ag. Director of Public Instruction, Travancore, Trivandrum.

(f) Three years from 14th July 1927.

(g) Three years from 4th July 1928.

(h) Three years from 28th June 1926.

(i) Three years from 25th July 1927.

(j) Three years from 14th July 1927.

(k) Three years from 4th July 1928.

(l) Three years from 6th June 1928.

(m) Three years from 4th July 1928.

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66. M.R.Ry. Rao Sahib Cheriyañ Matthai Avl., B.A., L.T.,  
Director of Public Instruction, Cochin State,  
Trichur.
  67. Nawab Masood Jung Bahadur, B.A., *Barrister-at-Law*,  
Director of Public Instruction, Hyderabad (Deccan).
  68. R. D. Anstead, Esq., C.I.E., M.A., Director of Agriculture,  
Chepauk, Triplicane, Madras.
  69. Khan Bahadur Muhammad Bazlullah Sahib Bahadur,  
B.A., C.I.E., O.B.E., Director of Industries,  
Chepauk, Triplicane, Madras.
  70. M.R.Ry. S. N. Dorai Rajah Avl., M.L.C., The Palace,  
Pudukottah (Trichinopoly).
  71. Miss E. M. Chambers, M.A., Principal, Sarah Tucker  
College, Palamcottah.
  72. The Rev. S. E. Neill, B.A., Union Christian College,  
Alwaye, (Travancore).
  73. The Rev. A. G. Hogg, M. A., D. Litt, College House,  
Esplanade, Madras.

*Ten Teachers of the University appointed by  
the Academic Council.*

74. Ferrand E. Corley, Esq., M.A., 'Wingate,' Mylapore,  
Madras.
75. M.R.Ry. Martyn M. Thomas Avl., M.A., Bishop Heber  
College, Trichinopoly.
76. M.R.Ry. Rao Bahadur S. Krishnaswami Ayyangar  
Avl., M.A., Ph.D., M.R.A.S., F.R.H.S., No. 1, East  
Mada Street, Mylapore, Madras.
77. M.R.Ry. C. S. Srinivasachariyar Avl., M.A., 29, Krish-  
nappa Naick Street, G.T., Madras.
78. M.R.Ry. J. P. Manikkam Avl., M.A., L.T., Fenn Hostel,  
G.T., Madras.
79. W. Erlam Smith, Esq., M.A., Presidency College,  
Madras.
80. M.R.Ry. P. J. Thomas Avl., M.A., B.Litt., Ph.D., 2|8,  
Jeremiah Road, Vepery, Madras.
81. The Rev. A. S. Woodburne, M.A., B.D., Ph.D., Profes-  
sor, Madras Christian College, Madras, E.
82. } Vacant.
83. }

## COUNCIL OF AFFILIATED COLLEGES.

### EXECUTIVE COMMITTEE.

1. M.R.Ry. Diwan Bahadur K. Ramunni Menon Avl., M.A., Vice-Chancellor.
2. R. G. Grieve, Esq., M.A., F.R.G.S. (Director of Public Instruction, Madras).

#### *Tamil Area.*

3. M.R.Ry. S. Mahadeva Ayyar Avl., B.A., L.T., American College, Madura.
4. M.R.Ry. K. S. Krishnamachariyar Avl., B.A., B.L., Srirangam.
5. The Rev. P. Carty, S.J., B.Sc., D.D., Teppakulam, Trichy.
6. M.R.Ry. M. V. N. Subba Rao Garu, M.A., Madura College, Madura.
7. *Vacant.*

#### *Malayalam Area.*

8. M.R.Ry. A. M. Varki Avl., M.A., B.L., Union Christian College, Alwaye.
9. M.R.Ry. S. K. Subrahmanya Ayyar Avl., M.A., L.T., Maharaja's College, Ernakulam.
10. M.R.Ry. K. R. Krishna Ayyar Avl., M.A., Maharajah's College of Science, Trivandrum.
11. *Vacant.*

#### *Kanarese Area.*

12. M.R.Ry. C. J. Varkey Avl., M.A., St. Aloysius' College, Mangalore.
  13. M.R.Ry. S. Ramachandra Ayyar Avl., St. Aloysius' College, Mangalore.
-

## SYNDICATE.

### EX-OFFICIO MEMBERS.

1. M.R.Ry. Dewan Bahadur K. Ramunni Menon Avl., M.A., (Vice-Chancellor), 'Lakshmisadan', Purasawalkam, Vepery, Madras.
2. R. G. Grieve, Esq., M.A., F.R.G.S., Director of Public Instruction, Old College, Nungambakam, Cathedral, Madras.

8—*Elected by the Senate under class II, sub-clause (1)—*  
(Section 18 of the Act.)

3. M.R.Ry. K. V. Krishnaswami Ayyar Avl., B.A., B.L., North Mada Street, Mylapore, Madras.
4. M.R.Ry. Rao Bahadur A. Lakshmanaswami Mudaliyar Avl., B.A., M.D., Egmore Madras.
5. M.R.Ry. Alladi Krishnaswami Ayyar Avl., B.A., B.L., Ekambara Nivas, Luz, Mylapore, Madras.
6. The Hon. Rao Bahadur G. A. Natesan, B.A., Editor, Indian Review, Esplanade, Madras.
7. M. A. Candeth, Esq., O.B.E., B.A., LL.B., *Barrister-at-Law*, College Road, Nungambakam, Cathedral P.O., Madras.
8. M.R.Ry. S. Satyamurti Avl., B.A., B.L., M.L.C., Singrachari Street, Triplicane, Madras.
9. M.R.Ry. Burra Satyanarayana Garu, B.A., B.L., Peter's Road, Royapettah, Madras.
10. *Vacant.*

3—*Elected by the Academic Council under class II,*  
*sub-clause (2) of the above section.*

11. The Rev. F. Bertram, s.J., B.A., D.D., Principal, Loyola College, Cathedral P.O., Madras.
12. W. Erlam Smith, Esq., M.A., Professor, Presidency College, Chepauk, Triplicane, Madras.
13. The Rev. A. G. Hogg, M.A., D.Litt., (Principal, Madras Christian College), College House, Esplanade, Madras.

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3.—*Elected by the Council of Affiliated Colleges under class II, sub-clause (3) of the above section.*

14. The Rev. P. Carty, s.J., B.Sc., D.D., Professor, St. Joseph's College, Trichinopoly.
15. M.R.Ry. C. J. Varkey Avl., M.A., Professor, St. Aloysius' College, Mangalore.
16. M.R.Ry. K. A. Nilakanta Sastri Avl., M.A., Professor, National College, Teppakulam, Trichinopoly.

3—*Nominated by H. E. the Chancellor under class II, sub-clause (4), of the above section.*

17. M.R.Ry. G. Nagaratnam Ayyar Avl., B.A., B.E., Principal, College of Engineering, Guindy, Saidapet, (Madras).
  18. M. Ratnaswami, Esq., M.A., *Bar-at-Law*, Principal, Madras Law College, Sterling Road, Nungambakam, Madras.
  19. *Vacant.*
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## **FACULTIES.**

### *Faculty of Arts.*

1. Rao Bahadur S. Krishnaswami Ayyangar, M.A., Ph.D.,  
M.R.A.S., F.R.H.S. (President), 25th June 1928.
2. Mr. R. G. Grieve, M.A., F.R.G.S.
3. Mr. P. J. Thomas, M.A., B.Litt., Ph.D.
4. Mr. C. Kunhan Raja, M.A., D.Phil.
5. The Rev. A. G. Hogg, M.A., D.Litt.
6. Mr. E. W. Green, M.A.
7. Miss D. De la Hey, M.A.
8. Miss E. McDougall, M.A., D.Litt.
9. Mr. A. M. Varki, M.A., B.L.
10. The Rev. L. F. Veysseyre.
11. The Rev. Matthew, K. Purakkal, M.A.
12. The Rev. Sister Beatrice, A.C., M.A.
13. K. Burnett, Esq., M.A.
14. The Rev. B. S. Stoffer, M.A., B.D.
15. Mr. M. V. N. Subba Rao, M.A.
16. The Rev. A. Ambruzzi, S.J., B.A., D.D., F.R.H.S.
17. The Rev. Sister M. Anunciata, A.C., B.A.
18. The Rev. N. G. Ponnayya, B.A., L.T.
19. The Rev. A. Gnanaprakasam, S.J.
20. Mr. H. C. Papworth, M.A.
21. Mr. P. C. Chakko, M.A.
22. The Rev. A. Bonhoure, S.J.
23. Mr. V. Saranatha Ayyangar, M.A.
24. The Rev. John Palocaran, M.A.
25. Mr. C. V. Chandrasekharan, M.A.
26. Mr. W. C. Douglas, M.A.
27. Mr. Joseph Franco, M.A., L.T.
28. Mr. T. K. Duraiswami Ayyar, M.A., L.T.
29. Mahamahopadhyaya S. Kuppaswami Sastri, M.A.
30. Mr. C. R. Namasivaya Mudaliyar.
31. The Rev. G. Matthews, M.A., B.Litt.
32. The Rev. A. S. Woodburne, M.A., B.D., Ph.D.
33. Mr. Ferrand E. Corley, M.A.
34. Mr. P. N. Srinivasachariyar, M.A.
35. Mr. C. S. Srinivasachariyar, M.A.
36. Mr. P. Sambamurti, B.A., B.L.
37. The Rev. P. Carty, S.J., B.Sc., D.D.
38. Mr. A. Gopala Menon, M.A., B.Com.
39. Mr. Govinda Krishna Chettur, M.A.

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40. Mr. N. Tyagaraja Ayyar, M.A., L.T.
  41. The Rev. H. P. Young, M.A., B.Litt.
  42. Mr. E. S. Anantanarayanan, M.A.,
  43. Mr. P. Subrahmanya Ayya, B.A., L.T.
  44. Afzal-ul-Ulama Muhammad Abdul Huq Sahib Bahadur, M.A.
  45. Mr. D. Sadasiva Reddi, M.A.
  46. Muhammad Sahib Bahadur, B.A., LL.B.
  47. The Rev. F. Basenach, S.J., B.Sc., Ph.D.
  48. Mr. L. M. Pylee, M.A.
  49. Miss Ida Gunther, B.A., L.T.
  50. Srimati M. Lakshmi Amma, B.A. (Hons.), L.T.
  51. Miss I. T. McNair, M.A.
  52. Miss S. Senevaratne, M.A.
  53. Mr. B. Rajagopalan, M.A.
  54. The Rev. J. S. M. Hooper, M.A.
  55. Mr. P. John Varughis, M.A.
  56. Rao Bahadur R. Krishna Rao Bhonsle, M.R.A.S.
  57. Mr. C. P. Matthew, M.A.
  58. Mr. E. A. Smith, B.A., L.T.
  59. Mr. R. P. Kulandaiswami Pillai, B.A., L.T.
  60. Mr. T. K. Sankara Menon, M.A.
  61. Miss Rose Xavier, M.A.
  62. The Rev. James M. Hess, M.A.
  63. Mr. P. Mahadevan, M.A.
  64. The Rev. Sister Benedicta, A.C.
  65. The Rev. L. Proserpio, S.J., M.A., D.D.
  66. The Rev. S. Miranda, S.J.
  67. Mr. M. Lakshminarayana Rao, M.A., L.T.
  68. Mr. K. Appaswami, M.A., B.D.
  69. The Rev. C. H. Firbank, M.A.
  70. Mr. M. S. Srinivasan, M.A.
  71. Mr. A. Narayanan Tampi, B.A. (Hons.).
  72. Mr. S. S. Suryanarayana Sastri, M.A., B.Sc., *Bar-at-Law.*
  73. Mr. P. S. Lokanathan, M.A.
  74. Mr. Muhammad Hussain Nainar, M.A., LL.B.
  75. Mr. K. C. Ramakrishnan, M.A.
  76. Mr. C. Achyuta Menon, B.A.

*Faculty of Science.*

1. Mr. W. Erlam Smith, M.A., (President, 11th May 1927).
2. The Rev. F. Bertram, S.J., B.A., D.D.
3. Rao Bahadur K. Chinnatambi Pillai, B.A., L.T.

4. Mr. P. F. Fyson, M.A.
5. Mr. S. K. Subrahmanya Ayyar, M.A., L.T., ..
6. The Rev. C. S. James, M.A.
7. Mr. J. Pryde, M.A., B.Sc.
8. Dr. H. Parameswaran, M.A.
9. Dr. S. G. Manavalaramanujam, M.A.
10. Mr. Edward B. Ross, M.A.
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14. Miss E. D. Mason, M.A.
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33. Dr. R. Vaidyanathaswami, M.A.

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*Faculty of Law.*

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2. Mr. E. J. John, B.A., B.L., *Barrister-at-Law*.
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4. Mr. S. Govindarajulu, B.A., B.L., LL.B., *Barrister-at-Law*.
5. Mr. V. M. Ramaswami Mudaliyar, M.A., B.L.
6. The Hon. Mr. V. Ramadas Pantulu, B.A., B.L.
7. Mr. T. K. Velu Pillai, B.A., B.L.

*Faculty of Medicine.*

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2. Mr. M. R. Guruswami Mudaliyar, B.A., M.D., C.M.
3. Capt. A. M. V. Hesterlow, I.M.S.
4. Rao Bahadur M. Kesava Pai, M.D., C.M.

*Faculty of Engineering.*

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2. Mr. K. C. Chakko, B.A., D.Sc.
3. Mr. T. N. Muttuswami Ayyar, M.A., L.T.
4. Mr. P. Subba Rao, B.A., A.M.I.E.E.
5. Mr. T. S. Venkataraman, B.E.

*Faculty of Agriculture.*

1. Mr. C. Tadulinga Mudaliyar, F.L.S., (*President*, 25th July 1927).
2. Mr. G. Nagaratnam Ayyar, B.A., B.E.
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4. Mr. M. S. Sabhesan, M.A.
5. Mr. P. H. Rama Reddi.

*Faculty of Commerce.*

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2. Mr. P. J. Thomas, M.A., B.Litt., Ph. D.
3. The Rev. A. Ambruzzi, S.J., B.A., D.D., F.R.H.S.
4. Mr. Ferrand E. Corley, M.A.

- 
5. Mr. T. K. Duraiswami Ayyar, M.A., L.T.
  6. The Rev. P. Carty, s.J., B.Sc., D.D.
  7. Mr. A. Gopala Menon Ayl., M.A., B. Com.

*Faculty of Fine Arts.*

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  2. Rao Bahadur K. Chinnatambi Pillai, B.A., L.T.
  3. Mr. G. Nagaratnam Ayyar, B.A., B.E.
  4. Mr. P. Sambamurti, B.A., B.L.
  5. The Rev. F. Basenach, s.J., B.Sc., D.D.
-

## BOARDS OF STUDIES (3 years)

### English.

16th December 1927.

1. S. E. Ranganadhan, Esq., M.A., L.T., (*Chairman*), Annamalai Nagar, Chidambaram.
2. M.R.Ry. V. K. Ayyappan Pillai Avl., M.A., Maharaja's College of Arts, Trivandrum.
3. M.R.Ry. Govinda Krishna Chettur Avl., M.A., Government College, Mangalore.
4. The Rev. C. H. Firbank, M.A., Bishop Heber College, Teppakulam, Trichinopoly.
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10. M.R.Ry. P. Subrahmanya Ayya Garu, B.A., L.T., Pachaiyappa's College, 124, Vellala Street, Purasawalkam, Madras.
11. M.R.Ry. K. Swaminathan Avl., M.A., B.L., Annamalai Nagar, Chidambaram.
12. *Vacant*.

### Sanskrit.

16th December 1927.

1. Mahamahopadhyaya S. Kuppuswami Sastri Avl., M.A. (*Chairman*), 5, North Mada Street, Mylapore, Madras.
2. Mahamahopadhyaya Dandapaniswami Dikshitar Avl., Annamalai Nagar, Chidambaram.
3. M.R.Ry. K. Gopalakrishnamma Garu, M.A., L.T., Lecturer, Government Arts College, Rajahmundry.
4. M.R.Ry. S. Krishnamurti Sastri Avl., M.A., L.T., Principal, Sri Minakshi Oriental Training College, Chidambaram.
5. M.R.Ry. K. S. Krishna Sastriyar Avl., Principal, Sanskrit College, Mylapore, Madras.
6. M.R.Ry. V. Krishnan Tampi Avl., B.A., Principal, Sanskrit College, Trivandrum.
7. M.R.Ry. P. N. Nilakanta Sarma Avl., Principal, Sanskrit College, Pattambi, Perumadaiyur P.O., Malabar District.
8. M.R.Ry. K. Parameswaran Pillai Avl., M.A., 'Nantiar Vitu,' Trivandrum.
9. M.R.Ry. P. P. S. Sastri Avl., M.A., M.R.A.S., Addl. Professor of Sanskrit, Presidency College, Triplicane, Madras.
10. M.R.Ry. S. Subba Rao Garu, M.A., Sanskrit College, Tirupati.
11. Mahamahopadhyaya Tata Subbaraya Sastri Garu, Vizianagaram.

12. M.R.Ry. S. Vedantam Ayyangar Avl., M.A., L.T., Principal, Sanskrit College, Tíruvadi (Tanjore District).
13. M.R.Ry. C. Kunhan Raja Avl., M.A., D.Phil. (*Ex-Officio*), University Professor of Sanskrit, Govinda Vilas, Theosophical Society, Adyar, Madras.

### **Oriya, Marathi, Hindi, Burmese and Sinhalese**

16th December 1927.

1. M.R.Ry. Rao Bahadur R. Krishna Rao Bhonsle Avl., M.R.A.S., (*Chairman*), 'Stonegift,' Vepery, Madras.
2. M.R.Ry. H. B. Atre Avl., B.A., Hyderabad (Deccan).
3. M.R.Ry. M. K. Dandekar Avl., B.A., Principal, Government School of Commerce, Law College Buildings, Madras, E.
4. Musafar Karamchand, Esq., M.A., Ph.D., Government Victoria College, Palghat.
5. M.R.Ry. R. A. Kshirasagar Avl., B.A., Hyderabad (Deccan).
6. Sriman Madhusudana Mahapatro Mahasayo, B.A., Parlakimedi, Ganjam District.
7. Sriman Sivaram Ratho Mahasayo, B.A., L.T., District Educational Officer, Berhampore (Ganjam).

### **Greek, Latin, French and German**

16th December 1927.

1. Ferrand E. Corley, Esq., M.A., (*Chairman*), Wingate, Brodie's Road, Mylapore, Madras.
2. The Rev. A. Ambruzzi, s.J., B.A., D.D., Principal, St. Aloysius' College, Mangalore.
3. The Rev. F. Basenach, s.J., B.Sc., Ph.D., Loyola College, Cathedral Post, Madras.
4. Miss D. de la Hey, M.A., Principal, Queen Mary's College, Mylapore, Madras.
5. W. C. Douglas, Esq., M.A., Professor, Presidency College, Chepauk, Triplicane, Madras.
6. The Rev. C. H. Firbank, M.A., Bishop Heber College; Teppakulam P.O., Trichinopoly.
7. Miss E. McDougall, M.A., D.Litt, Women's Christian College, Cathedral, Madras.
8. The Rev. P. Verdure, s.J., (*B. es L.*), Cuddalore N.T.
9. The Rev. P. Gabler, 73, Tanah Street, Vepery, Madras.
10. Miss I. T. McNair, M.A., Women's Christian College, Cathedral P.O., Madras.
11. The Rev. A. Sauliere, s.J., Loyola College, Cathedral P.O., Madras.

11th March 1929.

### **Hebrew, Syriac, Arabic, Persian and Urdu**

16th December 1927.

1. Afzul-ul-Ulama Muhammad Abdul Huq Sahib Bahadur, M.A., (*Chairman*), Government Muhammadan College, Mount Road, Madras.
2. Agha Muhammad Abbas Shustry, Professor, Maharaja's College, Mysore.

3. Shamsul-Ulama Muhammad Abdur Rahman Sahib Bahadur Shatir, Hindustani Translator to Government, Ameer Mahal, Royapet, Madras.
4. Khan Bahadur Muhammad Bazlullah Sahib Bahadur, C.I.E., O.B.E., B.A., Member, Board of Revenue, Chepauk, Madras.
5. The Rev. Canon Sell, D.D., 'Maidstone,' Harrington Road, Chetput, Madras.
6. Muhammad Abdul Huq Sahib Bahadur, B.A., Aurangabad.
7. The Most Rev. Mar Ivanios, M.A., B.D., Bethany Mission, Tiruvella, Travancore.
8. Maulavi Muhammad Umar Sahib Bahadur, Madrasa-Islamiah, Kurnool.
9. The Hon. Khan Bahadur Sir Muhammad Usman Sahib Bahadur, Kt., B.A., Aziz Bagh, Cathedral P.O., Madras.
10. Dr. Zahid Ali, Nizam College, Hyderabad (Deccan).
11. } *Vacant.*
12. }
13. Muhammad Hussain Nainar Sahib Bahadur, M.A., LL.B., Senior Reader, Islamic Section, Oriental Research Institute, Thambu Villa, Egmore, Madras, (*Ex-officio*).

### The Dravidian Languages

16th December 1927.

1. M.R.Ry. Rao Bahadur S. Krishnaswami Ayyangar Avl., M.A., Ph.D., M.R.A.S., F.R.H.S. (*Chairman*), 'Sri Jayavasam,' 1, East Mada Street, Mylapore, Madras.
2. M.R.Ry. C. N. Anantaramayya Sastri Avl., M.A., Maharaja's College of Arts, Trivandrum.
3. M.R.Ry. N. Kuppuswami Ayya Garu, B.A., Tirupati.
4. M.R.Ry. Rao Bahadur R. A. Narasimhachariyar Avl., M.A., Malleswaram, Bangalore.
5. M.R.Ry. K. V. Subbayya Avl., M.A., L.T., M.R.A.S., District Educational Officer, Trichinopoly.
6. M.R.Ry. P. S. Subrahmanya Sastri Avl., M.A., L.T., Assistant Editor, Tamil Lexicon, University of Madras, Marine Villa, Chepauk, Madras.
7. Mahamahopadhyaya V. Swaminatha Ayyar Avl., Tiruvateeswaranpet, Triplicane, Madras.
8. M.R.Ry. S. Valyapuri Pillai Avl., B.A., B.L., Editor, Tamil Lexicon, University of Madras, Marine Villa, Chepauk, Madras.

### Tamil.

14th March 1928.

1. M.R.Ry. C. R. Namasivaya Mudaliyar Avl. (*Chairman*), 'Kadal Agam,' San Thome, Mylapore, Madras.
2. M.R.Ry. Diwan Bahadur S. Bavanandam Pillai Avl., C.I.E., M.R.A.S., Jeremiah Road, Vepery, Madras.
3. M.R.Ry. M. Kandaswami Mudaliyar Avl., B.A., M.R.A.S., Pachaiyappa's College, Madras.
4. M.R.Ry. R. Raghava Ayyangar Avl., Samasthanam Pandit, Ramnad.



5. M.R.Ry. M. V. Ramanujachariyar Avl., Retired Pandit, Kesava Perumal Koil Street, Mylapore, Madras.
6. M.R.Ry. Rao Bahadur P. Sambanda Mudaliyar Avl., B.A., B.L., Acharappan Street, G.T., Madras.
7. M.R.Ry. C. N. Saravana Mudaliyar Avl., B.A., Tamil Translator to Government, Egmore, Madras.
8. M.R.Ry. A. M. Satagoparamanujachariyar Avl., Government College, Kumbakonam.
9. M.R.Ry. P. S. Subrahmanya Sastri Avl., M.A., L.T., Asst. Editor, Tamil Lexicon, University of Madras, Madras.
10. Mahamahopadhyaya V. Swaminatha Ayyar Avl., Tiruvattéeswaranpet, Triplicane, Madras.
11. M.R.Ry. S. Vaiyapuri Pillai Avl., B.A., B.L., Marine Villa, Chepauk, Madras.
12. *Vacant.*
13. M.R.Ry. K. N. Sivarama Pillai, Avl., B.A., Reader, Oriental Research Institute, Thambu Villa, Egmore, Madras, (*Ex-officio*).

### Telugu

14th March 1928.

1. The Hon. Mr. V. Ramadas Pantulu, B.A., B.L. (*Chairman*), Mylapore, Madras.
2. M.R.Ry. V. Chinnasitaramayya Sastri Garu, Vizianagaram.
3. M.R.Ry. K. Gopala Rao Garu, Teachers' College, Saidapet, Madras.
4. Vidvan K. Kanakamma Garu, Pandit, Queen Mary's College, Madras.
5. M.R.Ry. N. Kuppuswami Ayya Garu, B.A., Retired Pleader, Tirupati.
6. M.R.Ry. R. Madanagopal Naidu Garu, B.A., B.L., Vakil, Madras.
7. M.R.Ry. A. V. Narasimham Pantulu Garu, Telugu Pandit, Government Sec. and Trang. School for Women, Nellore.
8. M.R.Ry. C. Rajagopala Raju Garu, Telugu Translator to Government, Egmore, Madras.
9. M.R.Ry. T. Rajagopala Rao Garu, B.A., L.T., M.R.A.S., 54, Saravana perumal Street, Purasawalkum, Vepery, Madras.
10. M.R.Ry. P. Subrahmanya Ayya Garu, B.A., L.T., 124, Vellala Street, Purasawalkam, Madras.
11. M.R.Ry. Akkiraj Umakantam Garu, Vidyasekhara, Pandit, Presidency College, Triplicane, Madras.
12. M.R.Ry. V. Venkateswaralu Sastrulu Garu, Tiruvottiyur High Road, Tondiarpet, Madras.
13. M.R.Ry. K. Ramakrishnayya Garu, M.A., Reader, Oriental Research Institute, Thambu Villa, Egmore, Madras. (*Ex-officio*).

### Kanarese

14th March 1928.

1. M.R.Ry. B. Rama Rao Avl., M.A., LL.B. (*Chairman*), Ganga-dharieswarar Koil Street, Vepery, Madras.
2. M.R.Ry. M. D. Alasingarachariyar Avl., Pandit, Presidency College, South Mada Street, Triplicane, Madras.

3. M.R.Ry. M. Govinda Pai Avl., Landlord, Mangalore.
4. M.R.Ry. H. V. Krishnaswami Avl., Nizam's College, Hyderabad.
5. M.R.Ry. P. Mangesh Rao Avl., B.A., Kadri, Kankanady Post, South Kanara.
6. M.R.Ry. Rao Bahadur R. A. Narasimhachar Avl., M.A., Malleswaram, Bangalore.
7. M.R.Ry. K. Narasinga Rao Avl., B.A., Madras Christian College, Madras.
8. M.R.Ry. H. Sessa Ayyangar Avl., Fellow, University Oriental Research Institute, Egmore, Madras.
9. M.R.Ry. P. Sundara Sastriyar Avl., Government Oriental Manuscripts Library, Egmore, Madras.
10. M.R.Ry. B. Sitarama Rao Avl., B.A., B.L., Vakil, Mylapore, Madras.
11. M.R.Ry. R. Tatachar Avl., M.A., District Educational Officer, Mangalore, South Kanara.
12. M.R.Ry. M. Thimmapayya Avl., St. Aloysius' College, Mangalore.
13. M.R.Ry. A. Venkata Rao Garu, M.A., Reader, Thambu Villa, Egmore, Madras, (*Ex-officio*).

### Malayalam

14th March 1928.

1. M. A. Candeth, Esq., O.B.E., B.A., LL.B., *Bar-at-Law*, (*Chairman*), 12, College Road, Nungambakkam, Cathedral, Madras.
2. M.R.Ry. C. N. Anantaramayya Sastri Avl., M.A., Maharaja's College of Arts, Trivandrum.
3. M.R.Ry. T. K. Krishna Menon Avl., B.A., Ernakulam (Cochin).
4. M.R.Ry. P. Krishnan Nayar Avl., Pandit, Presidency College, Madras.
5. M.R.Ry. P. V. Kuruvilla Avl., B.A., L.T., Government Malayalam Translator, Egmore, Madras.
6. M.R.Ry. J. Muliyl Avl., B.A., Puthiyara P.O., Calicut.
7. M.R.Ry. D. Padmanabhan Unni Avl., B.A., Union Christian College, Alwaye.
8. M.R.Ry. K. Parameswaran Pillai, Avl., M.A., 'Nantiar Vitu,' Trivandrum.
9. M.R.Ry. S. Parameswara Ayyar Avl., M.A., B.L., Trivandrum.
10. M.R.Ry. Pallatu I. Raman Avl., Government College, Palghat.
11. M.R.Ry. Rama Varma Avl., 9th Prince of Cochin, Palace, Ayyenthole, Trichur.
12. *Vacant*.
13. M.R.Ry. C. Achyuta Menon Avl., B.A., Reader, University Oriental Research Institutes, Thambu Villa, Egmore, Madras, (*Ex-officio*).

### Philosophy

16th December 1927.

1. M.R.Ry. P. N. Srinivasachariyar Avl., M.A. (*Chairman*), 15, Chitrakolam Brahmin Street, Mylapore, Madras.
2. M.R.Ry. A. Chakravarti Avl., M.A., L.T., Principal, Arts College, Rajahmundry.

3. M.R.Ry. M. Lakshminarayana Garu, M.A., L.T., Government Victoria College, Palghat.
4. M.R.Ry. C. P. Mathew Ayl., M.A., Union Christian College, Alwaye.
5. M.R.Ry. P. Narasimham Garu, M.A., L.T., Government College, Kumbakonam.
6. M.R.Ry. P. Narasimhayya Garu, M.A., Ph.D., Professor, Maharaja's College of Arts, Trivandrum.
7. M.R.Ry. Peter Isaac Ayl., B.A., L.T., American College, Madura.
8. M.R.Ry. M. S. Srinivasa Sarma Ayl., National College, Trichinopoly.
9. S. J. Theodore, Esq., M.A., B.Litt., B.D., Harrington Road, chetput, Madras.
10. M.R.Ry. P. John Varughis Ayl., M.A., Wesley College, Royapet, Madras.
11. The Rev. A. S. Woodburne, M.A., Ph.D., Madras Christian College, Madras, E.
12. Vacant.
13. M.R.Ry. S. S. Suryanarayana Sastri Ayl., M.A., B.Sc., *Barrister-at-Law*, Reader, Madras University, 'Sri Ranga Vilas,' Egmore, Madras, (*Ex-officio*).

### History and Politics

16th December 1927.

1. Ferrand E. Corley, Esq., M.A. (*Chairman*), 'Wingate,' Brodie's Road, Mylapore, Madras.
2. M. A. Candeth, Esq., O.B.E., B.A., LL.B., *Barrister-at-Law*, 12, College Road, Nungambakam, Cathedral, Madras.
3. The Rev. P. Carty, S.J., B.Sc., D.D., St. Joseph's College, Teppakulam, Trichinopoly.
4. Miss D. de la Hey, M.A., Queen Mary's College, Mylapore, Madras.
5. Joseph Franco, Esq., M.A., L.T., Professor, Presidency College, Warden's Lodge, Triplicane, Madras.
6. E. W. Green, Esq., M.A., Government Muhammadan College, Mount Road, Madras.
7. M.R.Ry. M. Koilpillai Ayl., M.A., L.T., Bishop Heber College, Teppakulam, Trichinopoly.
8. M.R.Ry. K. A. Nilakanta Sastri Ayl., M.A., National College, Teppakulam, Trichinopoly.
9. M.R.Ry. S. F. Nunez Ayl., M.A., St. Thomas' College, Trichur.
10. M. Ratnaswami, Esq., M.A., *Barrister-at-Law*, Sterling Road, Cathedral P.O., Nungambakkam, Madras.
11. M.R.Ry. C. S. Srinivasachari Ayl., M.A., Professor, Pachaiyappa's College, Krishnappa Naick Street, G.T., Madras.
12. M.R.Ry. Rao Bahadur S. Krishnaswami Ayyangar, Ayl., M.A., Ph.D., M.R.A.S., F.R.H.S., University Professor of Indian History and Archaeology (*Ex-officio*), 143, Brodie's Road, Mylapore, Madras.
13. M.R.Ry. P. J. Thomas Ayl., M.A., B.Litt., Ph. D., (*Chairman*, Economics Board), Jeremiah Road, Vepery, Madras.

### Economics

16th December 1927.

1. M.R.Ry. P. J. Thomas Avl., M.A., B.Litt., Ph.D. (*Chairman*), University Professor of Indian Economics (Ex-officio), Jeramiah Road, Vepery, Madras.
2. The Rev. A. Ambrozzi, S.J., B.A., D.D., St. Aloysius' College, Kodialbail, Mangalore.
3. M.R.Ry. E. S. Anantanarayana Ayyar Avl., M.A., Gengu Reddy Street, Egmore, Madras.
4. The Rev. F. Basenach, S.J., B.Sc., Ph.D., Loyola College, Cathedral, Madras.
5. The Rev. P. Carty, S.J., B.Sc., D.D., St. Joseph's College, Teppakulam, Trichinopoly.
6. M.R.Ry. P. S. Lokanathan Avl., M.A., Reader in Economics, University of Madras, 142, Big Street, Triplicane, Madras.
7. M.R.Ry. T. K. Duraiswami Ayyar Avl., M.A., L.T., 32, Sivaraman Street, Triplicane, Madras.
8. M.R.Ry. A. Gopala Menon, Avl., M.A., B. Com., Arts College, Trivandrum.
9. Miss Teresa Joseph, M.A., B.Sc., Queen Mary's College, Mylapore, Madras.
10. M.R.Ry. Joseph Pettah Avl., M.A., St. Thomas' College, Trichur.
11. M.R.Ry. Rao Bahadur K. V. Rangaswami Ayyangar, Avl., M.A., F.R.H.S., 'Raghava Vilas,' Trivandrum.
12. M.R.Ry. S. Subbarama Ayyar Avl., M.A., Dip., Ec., Lecturer, Madras Christian College, Esplanade, Madras.
13. Ferrand E. Corley, Esq., M.A., (Ex-officio.) (*Chairman*, History Board), Wingate, Brodie's Road, Mylapore, Madras.

### Geography

17th August 1927.

1. M.R.Ry. N. Subrahmanya Ayyar Avl., M.A., L.T. (*Chairman*), Lecturer in Geography, Teachers' College, Saidapet, Gopalapuram, Cathedral, P.O., Madras.
2. Miss E. D. Birdseye, B.Sc., Wesleyan Mission, Royapet, Madras.
3. M.R.Ry. M. K. Dandekar Avl., B.A., Principal, Government School of Commerce, Law College Buildings, Madras, E.
4. Miss J. M. Gerrard, M.A., Principal, Lady Willingdon Training College, Triplicane, Madras.
5. E. W. Green, Esq., M.A., Principal, Government Muhammadan College, Mount Road, Madras.
6. M.R.Ry. C. K. Krishnaswami Pillai, Avl., M.A., L.T., M.Sc., D.I.C., Professor of Geology, Presidency College, Triplicane, Madras.
7. M.R.Ry. K. Rangaswami Ayyangar Avl., B.A., L.T., St. Joseph's College, Trichinopoly.
8. M.R.Ry. Rao Bahadur K. V. Rangaswami Ayyangar Avl., M.A., F.R.H.S., Raghava Vilas, Trivandrum.

9. M.R.Ry. M. Subrahmanya Ayyar Avl., B.A., B.L., Editor, Journal of the Madras Geographical Association 8, Woods Road, Mount Road, Madras.
10. M.R.Ry. P. J. Thomas Avl., M.A., B.Litt., Ph.D., University Professor of Indian Economics, Jeremiah Road, Vepery, Madras.
11. G. D. Watkins, Esq., B.Sc., F.R.G.S., Professor, Madras Christian College, Madras.
12. Vacant.

### Mathematics

16th December 1927.

1. Edward B. Ross, Esq., M.A. (*Chairman*), Wingate, Brodie's Road, Mylapore, Madras.
2. M.R.Ry. K. Ananda Rao Avl., M.A., Professor, Presidency College, Triplicane, Madras.
3. M.R.Ry. M. V. Arunachala Sastri Avl., M.A., L.T., Lecturer, Nizam's College, Hyderabad (Deccan).
4. M.R.Ry. Rao Bahadur K. Chinnatambi Pillai Avl., B.A., L.T., 'Corona Villa,' Gengu Reddi Road, Egmore, Madras.
5. The Rev. D. Ferrolli, S.J., D.D., St. Aloysius' College, Mangalore.
6. M.R.Ry. C. N. Ganapati Avl., M.A., L.T., Government Victoria College, Palghat.
7. M.R.Ry. G. V. Krishnaswami Ayyangar Avl., M.A., L.T., Lecturer, Annamalai University, Annamalai Nagar, Chidambaram.
8. M.R.Ry. K. R. Ramaswami Ayyangar, Avl., M.A., L.T., 48, Singrachari Street, Triplicane, Madras.
9. M.R.Ry. R. Srinivasan Avl., M.A., Science College, Trivandrum.
10. M.R.Ry. K. Srinivasapatrachariyar Avl., M.A., Government College, Coimbatore.
11. M.R.Ry. Martyn, M. Thomas Avl., M.A., 'Venus Lodge,' Vanapatral Street, Teppakulam, Trichinopoly.
12. Vacant.
13. M.R.Ry. R. Vaidyanathaswami Avl., M.A., D.Sc., Reader in Mathematics, Thambu Villa, Egmore, Madras, (*Ex-officio*).

### Physics

16th December 1927.

1. M.R.Ry. J. P. Manikkam Avl., M.A., L.T., (*Chairman*), Fent Hostel, Madras, E.
2. M.R.Ry. K. Adishesu Nayudu Garu, B.A., B.L., L.T., 12, Nagamani Garden Street, G.T., Madras.
3. M.R.Ry. Rao Bahadur M. C. S. Anantapadmanabha Rao Avl., M.A., L.T., Retired Principal, Government College, Kumbakonam.
4. M.R.Ry. S. Appaswami Ayyar Avl., M.A., L.T., Government Victoria College, Palghat.
5. Miss Edith M. Coon, M.A., Women's Christian College, Nungambakkam, Cathedral P.O., Madras.

6. M.R.Ry. M. Gundu Rao Ayl., M.A., L.T., Nizam's College, Hyderabad (Deccan).
7. The Rev. D. Honore, S.J., B.A., Teppakulam, Trichinopoly.
8. The Rev. A. Moffat, M.A., B.Sc., LL.D., F.R.S.E., Union Christian College, Alwaye.
9. M.R.Ry. H. Parameswaran Ayl., M.A., D.Sc., Presidency College, Triplicane, Madras.
10. M.R.Ry. S. Ramakrishna Ayyar, Ayl., M.A., Science College, Trivandrum.
11. M.R.Ry. P. E. Subrahmanya Ayyar Ayl., M.A., L.T., St. Joseph's College, Teppakulam, Trichinopoly.
12. M.R.Ry. S. K. Subrahmanya Ayyar, Ayl., M.A., L.T., Maharaja's College, Ernakulam.

### . Chemistry

16th December 1927.

1. Edward Barnes, Esq., B.Sc., (*Chairman*), Madras Christian College, Madras, E.
2. Biman Behari Dey, Esq., M.Sc., D. Sc., F.I.C., Presidency College, Triplicane, Madras.
3. The Rev. T. Gonsalves, S.J., B.A., D.D., St. Aloysius' College, Mangalore.
4. The Rev. A. Haas, S.J., St. Joseph's College, Teppakulam, Trichinopoly.
5. K. L. Moudgill, Esq., B.A., D.Sc., F.I.C., Science College, Trivandrum.
6. M.R.Ry. K. Narasimha Pai Ayl., M.A., Maharaja's College, Ernakulam.
7. M.R.Ry. P. Ram Rao Ayl., M.A., Nizam's College, Hyderabad (Deccan).
8. W. Erlam Smith, Esq., M.A., Presidency College, Triplicane, Madras.
9. M.R.Ry. V. Swaminatha Ayyar, Ayl., M.A., M.Sc., Bishop Heber College, Teppakulam, Trichinopoly.
10. Mrs. R. S. Swarnambal, M.A., L.T., Sub-Assistant Inspector of Schools, Anantapur.
11. M.R.Ry. K. C. Viraraghava Ayyar Ayl., M.A., L.T., Queen Mary's College, Mylapore, Madras.
12. *Vacant.*

### Botany

16th December 1927.

1. M.R.Ry. T. Ekambaram Ayl., M.A., L.T., Ph.D., (*Chairman*). (Teachers' College, Saidapet,) 'Mohana Vilas', Royapettah, (Madras).
2. P. F. Fyson, Esq., M.A., Principal, Presidency College, Chepauk, Triplicane, Madras.
3. Miss C. K. Kausalya, B.A., B.Sc., L.T., Queen Mary's College, Mylapore, Madras.

4. M.R.Ry. M. O. Parthasarathi Ayyangar Avl., M.A., L.T., 1, Hanumantaroyan Street, Triplicane, Madras.
5. J. Pryde, Esq., M.A., B.Sc., Maharaja's College of Science, Trivandrum.
6. M.R.Ry. Diwan Bahadur K. Rangachariyar Avl., M.A., L.T., Government Museum, Egmore, Madras.
7. M.R.Ry. M. S. Sabhesan Avl., M.A., 18, Nallatambi Mudali Street, Triplicane, Madras.
8. M.R.Ry. M. A. Sampathkumaran Avl., M.A., Ph.D., Central College Hostel Quarters, Bangalore.
9. M.R.Ry. A. H. Sundararaman Avl., M.A., Ananda College, Colombo.
10. M.R.Ry. C. Tadulinga Mudaliyar Avl., F.L.S., Agricultural College, Lawley Road, Coimbatore.
11. M.R.Ry. Rao Bahadur T. S. Venkataraman Avl., M.A., Sugar-cane Expert, Lawley Road, Coimbatore.
12. Vacant.

### Zoology

16th December 1927.

1. M.R.Ry. C. Lakshminarayanan Avl., M.A., (Chairman), 'Mangala Bhavanam,' Agraharam, Nungambakam, Cathedral P.O., Madras.
2. M.R.Ry. R. Gopala Ayyar Avl., M.A., L.T., 'Lakshmi Vilas,' Gopalapuram, Cathedral, Madras.
3. M.R.Ry. M. Ekambaranatha Ayyar Avl., M.A., L.T., Presidency College, Chepauk, Madras.
4. F. H. Gravely, Esq., D.Sc., Museum House, Egmore, Madras.
5. M.R.Ry. K. Karunakaran Nayar Avl., M.A., Professor, Maharaja's College, Ernakulam.
6. M.R.Ry. S. G. Manavalaramanujam Avl., M.A., Ph.D., F.Z.S., Professor, Presidency College, Triplicane, Madras.
7. M.R.Ry. K. S. Padmanabha Ayyar, Avl., M.A., L.T., Maharaja's College, of Science, Trivandrum.
8. M.R.Ry. Rao Sahib Y. Ramachandra Rao Avl., M.A., F.E.S., Lawley Road, Coimbatore.
9. M.R.Ry. Diwan Bahadur K. Ramunni Menon Avl., M.A., 'Lakshmisadan,' Purasawalkum, Vepery, Madras.
10. M.R.Ry. R. M. Savur Avl., B.A., District Educational Officer, Salem.
11. M.R.Ry. B. Sundararaj Avl., M.A., Ph.D., Director of Fisheries, Chepauk, Madras.
12. Miss E. D. Mason, M.A., Women's Christian College, Nungambakam, Madras.

### Geology

16th December 1927.

1. M.R.Ry. Rao Bahadur H. Narayana Rao avl., M.A. (Chairman), 'Shanker Bagh,' Kilpauk, Madras.
2. M.R.Ry. C. K. Krishnaswami Pillai Avl., M.A., L.T., M.Sc., Prof., Presidency College, Chepauk, Triplicane, Madras.

3. M.R.Ry. E. Masillamani Avl., B.A., B.Sc., Geologist, Trivandrum.
4. M.R.Ry. T. N. Muttuswami Ayyar Avl., M.A., L.T., College of Engineering, Guindy, Saidapet.
5. M.R.Ry. V. S. Sambasiva Ayyar Avl., B.Sc., C.E.L., F.G.S., 56, Purasawalkam High Road, Vepery, Madras.
6. M.R.Ry. P. Sampath Ayyangar Avl., M.A., 'Komala Villas,' Basavangudi, Bangalore.
7. M.R.Ry. T. Sankar Singh Avl., M.A., B.Sc., L.T., Presidency College, Chepauk, Triplicane, Madras.
8. Vacant.

### Law

17th August 1927.

1. M. Ratnaswami Esq., M.A., *Bar-at-Law (Chairman)*, Sterling Road, Cathedral P.O., Nungambakkam, Madras.
2. M.R.Ry. E. J. John Avl., B.A., B.L., Law College, Trivandrum.
3. M.R.Ry. K. V. Krishnaswami Ayyar Avl., B.A., B.L., North Mada Street, Mylapore, Madras.
4. M.R.Ry. C. Kunhiraman Avl., B.A., B.L., *Barrister-at-Law*, Judge, Court of Small Causes, Madras.
5. The Hon. Mr. Justice C. Madhavan Nair, B.A., *Barrister-at-Law*, Moorats Garden, Nungambakkam, Cathedral P.O., Madras.
6. The Hon. Mr. V. Ramadas Pantulu, B.A., B.L., Mylapore, Madras.
7. M.R.Ry. S. Ramaswami Ayyar Avl., B.A., B.L., Sundareswaraswami Street, Mylapore, Madras.
8. M.R.Ry. S. Satyamurti, Avl., B.A., B.L., Singarachari Street, Triplicane, Madras.
9. M.R.Ry. K. Subrahmanya Pillai Avl., M.A., M.L., High Road, Egmore, Madras.
10. M.R.Ry. Rao Bahadur S. Varadachariyar Avl., B.A., B.L., Mylapore, Madras.
11. } Vacant.
12. }

### Medicine

16th December 1927.

1. M.R.Ry. M. R. Guruswami Mudaliyar Avl., B.A., M.D., C.M., 'Sladen's Garden,' Kilpauk, Madras, (*Chairman*).
2. Khan Bahadur Muhammad Azizullah Sahib Bahadur, B.A., M.B.C.M., 157, Jani Jan Khan Road, Royapet, Madras.
3. Lt.-Col. E. W. C. Bradfield, C.I.E., O.B.E., M.S., I.M.S., 'Dunduan, Nungambakkam, Cathedral P.O., Madras.
4. Capt. A. M. V. Hesterlow, I.M.S., Harleys Road, Kilpauk, Madras.
5. M.R.Ry. Rao Bahadur M. Kesava Pai Avl., M.D., Harris Road, Mount Road, P.O., Madras.
6. Lt.-Col. G. E. Malcolmson, I.M.S., 'Chipstead,' Nungambakkam, Cathedral P.O., Madras.



7. Major K. G. Pandalai, M.B.C.M., F.R.C.S., I.M.S., Poonamallee Road, Kilpauk, Madras.
8. Lt.-Col. J. M. Skinner, I.M.S., General Hospital, Park Town, Madras.
9. Rao Sahib T. Sundara Reddi Garu, F.R.C.S.I., 6, Rundal's Road, Vepery, Madras.
10. Lt.-Col. R. E. Wright, C.I.E., M.D., I.M.S., Government Ophthalmic Hospital, Egmore, Madras.
11. } Vacant.
12. }

### Engineering

16th December 1927.

1. M.R.Ry. G. Nagaratnam Ayyar Avl., B.A., B.E. (*Chairman*), College of Engineering, Guindy, Saidapet.
2. M.R.Ry. K. C. Chakko Avl., B.A., D.Sc., College of Engineering, Guindy, Saidapet.
3. E. J. B. Greenwood, Esq., M.Sc., M.I.E.E., Electrical Engineer, P. W. D., Chepauk, Madras.
4. W. Fyffe, Esq., Chief Engineer, Madras Port Trust, 1st Line Beach, Madras.
5. M.R.Ry. S. Lakshminarasappa Garu, B.A., B.E., Principal, College of Engineering, Bangalore.
6. J. G. R. Marsh, Esq., V.D., M.I.C.E., Chief Engineer, M. & S. M. Ry., Park Town, Madras.
7. R. H. Martin, Esq., Deputy Chief Engineer, South Indian Railway, Golden Rock, Trichinopoly.
8. M.R.Ry. Diwan Bahadur A. V. Ramalinga Ayyar Avl., B.A., B.C.E., Lloyd's Road, Royapettah, Madras.
9. M.R.Ry. K. R. Ramaswami Ayyangar Avl., M.A., L.T., 48, Singarachari Street, Triplicane, Madras.
10. M.R.Ry. P. Subba Rao Garu, B.A., A.M.I.C.E., A.M.I.E., College of Engineering, Guindy, Saidapet, P.O.

12th March 1928.

11. J. S. Westerdale, Esq., B.Sc., M.I.C.E., M.I.M.E., Sanitary Engineer to Government, Madras.
12. Vacant.

### Teaching

16th December 1927.

1. H. Champion, Esq., M.A. (*Chairman*), Teachers' College, Saidapet, Madras.
2. Miss B. Amirtammal, B.A., L.T., Government Secondary School, Cuddalore.
3. M.R.Ry. S. Balakrishna Ayyar Avl., B.A., L.T., Teachers' College, Saidapet.
4. Miss K. N. Brockway, M.A., St., Christopher's Training College, Kilpauk, Madras.

5. Miss Gertrude E. Chandler, St. Christopher's Training College, Kilpauk, Madras.
6. M.R.Ry. C. N. Ekambara Mudaliar Avl., M.A., L.T., Teacher's College, Saidapet, (Madras).
7. Miss J. M. Gerrard, M.A., Lady Willingdon Training College, Triplicane, Madras.
8. Mrs. S. B. Israel, B.A., L.T., Lady Willingdon Training College, Triplicane, Madras.
9. M.R.Ry. D. Jivanayakam Avl., M.A., L.T., Training College, Trivandrum.
10. M.R.Ry. G. V. Subba Rao Avl., M.A., National Theosophical College, Adyar, Madras, S.
11. M.R.Ry. N. Subrahmanya Ayyar Avl., M.A., L.T., Lecturer, Teachers' College, Gopalapuram, Cathedral P.O., Madras.
12. M.R.Ry. K. P. Ukkandan Unni Nayar Avl., M.A., L.T., Training College, Trivandrum.

### Agriculture

16th December 1927.

1. M.R.Ry. C. Tadulingam Mudaliyar Avl., F.L.S. (*Chairman*)  
Agricultural College, Lawley Road P.O., Coimbatore.
2. R. D. Anstead, Esq., C.I.E., M.A., Director of Agriculture,  
Chepauk, Madras.
3. M.R.Ry. Rao Bahadur D. Ananda Rao Avl., B.Sc., Deputy  
Director of Agriculture, St. Thomas' Mount.
4. M.R.Ry. D. Balakrishnamurti Pantulu Garu, Dip Ag. Agri-  
cultural College, Lawley Road P.O., Coimbatore.
5. M.R.Ry. G. Nagaratnam Ayyar Avl., B.A., B.E., College of  
Engineering, Guindy, Saidapet, Madras.
6. M.R.Ry. T. V. Ramakrishna Ayyar Avl., Ph.D., Agricultural  
College, Lawley Road P.O., Coimbatore.
7. M.R.Ry. P. H. Rami Reddi Garu, M.A., B.Sc., Agricultural  
College, Lawley Road P.O., Coimbatore.
8. M.R.Ry. G. N. Rangaswami Ayyangar Avl., Agricultural Col-  
lege, Lawley Road, Coimbatore.
9. M.R.Ry. M. S. Sabhesan Avl., M.A., 18, Nallatambi Mudali  
Street, Triplicane, Madras.
10. P. T. Saunders, Esq., M.R.C.V.S., Principal, Veterinary College,  
Vepery, Madras.
11. W. Erlam Smith, Esq., M.A., Professor, Presidency College,  
Triplicane, Madras.
12. M.R.Ry. Rao Bahadur B. Viswanath Avl., Agricultural College,  
Lawley Road P.O., Coimbatore.

### Commerce

9th December 1926.

1. M.R.Ry. T. K. Duraiswami Ayyar Avl., M.A. (*Chairman*).  
Sivaraman Street, Triplicane, Madras.

2. The Rev. P. Carty, s.j., B.Sc., D.D., St. Joseph's College, Teppakulam, Trichinopoly.
3. M.R.Ry. M. K. Dandekar Avl., Principal, Institute of Commerce, Law College Buildings, Madras, E.
4. M.R.Ry. A. Gopala Menon Avl., M.A., B. Com., Talcaud, Trivandrum.
5. M.R.Ry. C. Gopala Menon Avl., F.C.I., A.I.B., M.L.C., Pantheon Road, Egmore, Madras.
6. E. W. Green, Esq., M.A., Government Muhammadan College, Mount Road, Madras.
7. M.R.Ry. C. M. Kothari Avl., B.A., L.L.B., 144, Popham's Broadway, Madras.
8. M.R.Ry. V. C. Rangaswami Avl., B.A., Central Urban Bank, Luz, Mylapore, Madras.
9. M.R.Ry. T. S. Venkatesa Ayyar Avl., M.A., M.L., 34, Thambu Chetty Street, G.T., Madras.

17th August 1927.

10. M.R.Ry. K. S. Ayyar Avl., B.A., (Messrs. K. S. Ayyar & Co., of Bombay), Sankarpur, Basavangudi, Bangalore.
11. M.R.Ry. P. J. Thomas Avl., M.A., B. Litt., Ph.D., Professor of Indian Economics, University of Madras, Jeramiah Road, Vepery, Madras.
12. Vacant.

### Indian Music.

(17th August 1928).

1. M.R.Ry. P. Sambamurti Avl., B.A., B.L., (*Chairman*), (Queen Mary's College), Harrington Road, Chetput, Madras.
2. M.R.Ry. Rao Bahadur K. Chinnatambi Pillai Avl., B.A., L.T., Corona Villa, Egmore, Madras.
3. M.R.Ry. W. Duraiswami Ayyangar, Avl., Longmans Green & Co., Mount Road, Madras.
4. Rao Bahadur R. A. Narasimhachar Avl., M.A., Malleswaram, Bangalore.
5. M.R.Ry. M. S. Ramaswami Ayyar Avl., B.A., B.L., L.T., 13, G. Store, Ulsoor, Bangalore.
6. Vidvan T. S. Sabhesa Ayyar Avl., Principal, Music College, Chidambaram.
7. M.R.Ry. Rao Bahadur P. Sambanda Mudaliyar Avl., B.A., B.L., Acharappan Street, G.T., Madras.
8. M.R.Ry. S. Satyamurti, Avl., B.A., B.L., Singarachari Street, Triplicane, Madras.
9. M.R.Ry. C. R. Srinivasa Ayyangar Avl., B.A., National Theosophical College, Adyar, Madras.
10. M.R.Ry. R. Srinivasan Avl., M.A., Science College, Trivandrum.
11. Mrs. R. S. Swarnambal, M.A., L.T., Sub-Assistant Inspectress Schools, Anantapur,

12. M.R.Ry. T. L. Venkatarama Ayyar Avl., Sannadhi Street, Mylapore, Madras.

### Western Music.

(17th August 1928).

1. The Rev. F. Basenach, S.J., B.Sc., Ph.D., (Chairman), Loyola College, Cathedral Madras.
2. Miss L. Bantleman, A.T.C.L., A.L.C.M., Kennett's Lane, Egmore, Madras.
3. Mrs. E. W. C. Bradfield, Dunduan, Nungambakam, Madras.
4. Mrs. Colam, Sterling Road, Nungambakam, Madras.
5. Mrs. F. Craven, Garden Bungalow, Cathedral Road, Madras.
6. Miss A. de Rozario, L.A.B.L.R.A.M., Egmore, Madras.
7. Mrs. S. E. Ranganathan, Annamalai Nagar, Chidambaram.
8. The Hon. Mr. Justice E. H. Wallace, Judge, High Court, Madras.
9. Vacant.

### Drawing and Architecture.

(17th August 1928).

1. Mr. P. F. Fyson, M.A., (Chairman), Presidency College, Madras.
2. M.R.Ry. M. A. Anantalwar Avl., 14, Car Street, Triplicane, Madras.
3. Miss Baker, Edward School, C. E. Z. Mission, Vepery, Madras.
4. Miss L. Barne, St. Ebba's School, Royapettah, Madras.
5. Mr. R. Dann, Kalil Mansion, Mount Road, Madras.
6. Mr. R. Jackson, Engineer, 22, Broadway, Madras.
7. M.R.Ry. S. H. Lakshminarasappa Garu, Engineering College, Bangalore.
8. M.R.Ry. G. Nagaratnam Ayyar Avl., B.A., B.E., College of Engineering, Guindy, Madras.
9. M.R.Ry. Narayanaswami Nayudu Garu, Assistant, School of Arts, Egmore, Madras.
10. M.R.Ry. D. P. Roy Chowdhury Avl., Superintendent, School of Arts, Madras.
11. The Hon. Mr. Justice E. H. Wallace, Judge, High Court, Madras.
12. Vacant.

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2. M. A. Candeth, Esq., O.B.E., B.A., LL.B., *Barrister-at-Law*.
3. Ferrand E. Corley, Esq., M.A.
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5. M.R.Ry. S. Satyamurti Avl., B.A., B.L., M.L.C.
6. W. Erlam Smith, Esq., M.A.
7. M. Ratnaswami, Esq., M.A., *Bar-at-Law*.

---

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#### PROFESSOR.

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#### READER.

M.R.Ry. P. T. Srinivasa Ayyangar Avl., M.A. (1st March 1928).

#### LECTURER.

M.R.Ry. V. R. Ramachandra Dikshitar Avl., M.A., Dip. Ec. (1st March 1928).

### 2. Department of Indian Economics.

#### PROFESSOR.

M.R.Ry. P. J. Thomas Avl., M.A., B.Litt., Ph.D., (15th June 1927).

#### READER.

M.R.Ry. P. S. Lokanathan Avl., M.A. (5th July 1927).

#### LECTURERS.

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*Vacant.*

**3. Department of Mathematics.****READER.**

M.R.Ry. R. Vaidyanathaswami, Avl., M.A., D.Sc., F.R.S.E. (24th August 1927).

**4. Department of Indian Philosophy****READER.**

M.R.Ry. S. S. Suryanarayana Sastri Avl., M.A., B.Sc., *Bar-at-Law*.  
(22nd August 1927).

**ORIENTAL RESEARCH INSTITUTE****DRAVIDIAN SECTION.****Director of**

Dravidian Studies.....*Vacant.*

*Tamil.***Reader—**

Mr. K. N. Sivaraja Pillai, B.A.

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Mr. V. Venkatarajulu Reddiyar.

*Telugu.***Reader—**

Mr. K. Ramakrishniah, M.A.

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Mr. C. Achyuta Menon, B.A.

**Fellow—**

Mr. V. Koman Menon.

*Kanarese.***Reader—**

Mr. A. Venkata Rao, B.A., L.T.

**Fellow—**

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| 1922 The Rev. W. Meston, M.A., D.D.  | { Principal, Madras Christian College.                            |
| 1923 Diwan Bahadur Sir R. Venkataratnam Naidu Garu, Kt., M.A. D.Litt.            | { Retired Principal, Pithapur Raja's College, Cocanada.           |
| 1924 The Hon. Sir C. P. Ramaswami Ayyar, K.C.I.E., B.A., B.L.                    | { Member of the Executive Council of the Governor of Madras.      |
| 1925 The Hon. Sir V. M. Coutts-Trotter, Kt., M.A. <i>Bar-at-Law</i>              | { Chief Justice, High Court, Madras.                              |
| 1926 The Hon. Rao Bahadur Sir A. P. Patro, Kt., B.A., B.L.                       | { Minister of Education and Pro-Chancellor, University of Madras. |
| 1927 M.R.Ry. Diwan Bahadur K. Ramunni Menon Avl., M.A.                           | { Professor, Presidency College, Madras.                          |
| 1928 His Excellency The Rt. Hon. Viscount Goschen of Hawkhurst, G.C.I.E., C.B.E. | { Governor of Fort St. George, and Chancellor of the University.  |
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## PREFATORY NOTE.

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The University of Madras was founded under the Act of Incorporation XXVII of 1857. This Act was in operation until 1904 when as a result of the Commission appointed by the Government of India in 1902 to examine the working of the Universities under that system, the Indian University Act VIII of 1904 was passed with the intention of reorganising the Universities in India and of enlarging their functions in the matters of University Teaching and of supervision over affiliated colleges. This Act again has been superseded by the Madras University Act No. VII of 1923 which was passed by the Legislative Council of Madras early in 1923, and came into force on the 1st May 1923. This new Act was passed so as to reorganise the University with a view to establishing a teaching and residential University at Madras while enabling the University to continue to exercise due control over the quality of the teaching given by colleges which are to constitute the University or are affiliated to it. The Chancellor, the Pro-Chancellor, the Vice-Chancellor, the Senate, the Syndicate, the Academic Council and the Council of Affiliated Colleges constitute the body corporate of the University. The Visitor of the University is the Governor-General; the Chancellor is the Governor of Madras; the Pro-Chancellor is the Minister of Education; the Vice-Chancellor is a whole-time officer, to whom a salary may be paid, who holds office ordinarily for three years, and is appointed by the Chancellor from among five persons recommended by the Senate. The Authorities of the University under this new Act are (1) the Senate, (2) the Syndicate, (3) the Academic Council, (4) the Faculties, (5) the Boards of Studies, (6) the Council of Affiliated Colleges and (7) such other Authorities as may be declared by the Statutes to be Authorities of the University.

# MADRAS ACT No. VII of 1923

PASSED BY THE LEGISLATIVE COUNCIL OF MADRAS.

(Received the assent of the Governor on the 28th February 1923 and that of the Governor-General on the 29th March 1923; the assent of the Governor-General was first published in the "Fort St. George Gazette" of the 1st May 1923.)

## *An Act to provide for the reorganisation of the Madras University.*

WHEREAS it is expedient to reorganise the University of Madras with a view to establishing a teaching and residential University at Madras while enabling the University to continue to exercise due control over the quality of the teaching given by colleges which are to constitute the University of Madras or are affiliated to it.

AND WHEREAS it is desirable to foster the development of academic life and corporate unity as well in the colleges as in the University by so promoting co-operation among the colleges and between the University and the colleges as to utilize to the full the teaching resources available within the limits of the University;

AND WHEREAS it is desirable by the concentration and co-ordination of resources for higher teaching and research at suitable centres outside the limits of the University to prepare for the institution of new Universities;

AND WHEREAS the previous sanction of the Governor-General has been obtained for the passing of this Act, it is hereby enacted as follows:—

### CHAPTER I—PRELIMINARY.

Short title and commencement. 1. (1) This Act may be called the Madras University Act, 1923.

(2) This section shall come into force at once. The rest of this Act shall come into force on such date or dates as the Local Government may, by notification, ap-

point and different dates may be appointed for different provisions of this Act.

**Definition**

2. In this Act, unless there is anything repugnant in the subject or context—

(a) '*Affiliated College*' means a college situated outside the limits of the University and affiliated to the University of Madras as constituted prior to the commencement of this Act or admitted to the privileges of affiliation with the University under conditions prescribed in this behalf.

(b) '*Constituent College*' means a college maintained or recognized by the University in accordance with the provisions of this Act, in which instruction is provided under prescribed conditions and which is situated within the limits of the University.

(c) '*First-grade College*' means a college which submits its students to examinations qualifying for degrees other than professional degrees.

(d) '*Hostel*' means a unit of residence for students of the University maintained or recognized by the University in accordance with the provisions of this Act.

(e) '*Limits of the University*' means the territory within a radius of ten miles from Fort St. George.

(f) '*Prescribed*' means prescribed by the Statutes, Ordinances or Regulations.

(g) '*Principal*' means the head of a constituent college or of an affiliated college.

(h) '*Registered graduates*' means graduates registered under the provisions of this Act or of the Indian Universities Act, 1904.

(i) '*Second grade college*' means a college which prepares its students for the Intermediate Examination in Arts and Science and does not submit its students to Degree Examinations,

(j) '*Teachers*' includes professors, readers and lecturers and such other persons giving instruction in constituent or affiliated colleges or hostels as may be recognized by the University to be teachers.

(k) '*Teachers of the University*' means persons appointed by the University to give instruction on its behalf.

(l) '*University*' means the University of Madras as reconstituted under this Act.

(m) '*University centre*' means a local area, outside the limits of the University, recognized by the Local Government on the recommendation of the University as containing one or more colleges competent to engage in higher teaching and research work and to promote University life in a manner calculated to prepare for the institution of a new University.

(n) '*University Professor*' means a Professor appointed to deliver lectures, to conduct classes, to engage in or direct and supervise research, or to do any other academic work that may be entrusted to him under the provisions of this Act.

## CHAPTER II—THE UNIVERSITY.

3. (1) The first Chancellor, Pro-Chancellor and Vice-Chancellor of the University and the first members of the Senate, the Syndicate, the Academic Council and the Council of Affiliated Colleges and all persons who may hereafter become such officers or members so long as they continue to hold such office or membership are hereby constituted a body corporate by the name of the University of Madras.

(2) The University shall have perpetual succession and a common seal and shall sue and be sued by the name of the University of Madras.

4. As from the date on which section 3 and this section are brought into operation the Chancellor shall cease to exercise his functions under any Act or Acts heretofore in force, and the Vice-Chancellor and all Fellows

**Vacation of Fellowships**

and Honorary Fellows of the University of Madras as constituted and incorporated by any Act or Acts heretofore in force shall cease to be the Vice-Chancellor, Fellows and Honorary Fellows of the University, respectively.

5. (1) No person shall be excluded from membership of any of the authorities of the University or from admission to any degree or course of study on the sole ground of sex, race, creed, or class, and it shall not be lawful for the University to adopt or impose on any person any test whatsoever relating to religious belief or profession in order to entitle him to be admitted thereto as a teacher or student or to hold any office therein or to graduate thereat or to enjoy or exercise any privileges thereof except where in respect of any particular benefaction accepted by the University such test is made a condition thereof.

(2) No person shall be qualified for election or nomination as a member of any of the authorities of the University if he

(a) is at the date of election or nomination of unsound mind, deaf-mute or suffers from contagious leprosy, or

(b) is an uncertificated bankrupt or undischarged insolvent, or

(c) has been convicted by a court of law of an offence which involves moral delinquency.

In case of dispute or doubt, the Syndicate shall determine whether a person is disqualified under this sub-section and its decision shall be final.

6. (1) No attendance at any instruction other than that conducted or recognized by the University shall qualify for admission to an examination of the University.

(2) The authorities responsible for organizing such instruction shall be those prescribed therefor.

(3) The courses of study and curricula shall be those prescribed.

7. (1) The Governor-General shall  
**The Visitor** be the Visitor of the University.

(2) The Visitor shall have the right to cause an inspection to be made, by such person or persons as he may direct, of the University, its buildings, laboratories, libraries, museums, workshops and equipment and of any institutions associated with the University and also of the teaching and other work conducted or done by the University and to cause an inquiry to be made in respect of any matter connected with the University. The Visitor shall in every case give notice to the University of his intention to cause such inspection or inquiry to be made and the University shall be entitled to be represented thereat.

(3) The Visitor may address the Chancellor with reference to the results of such inspection or inquiry and the Chancellor shall communicate to the Senate and to the Syndicate the views of the Visitor and may, after ascertaining the opinion of the Senate and the Syndicate thereon, advise the University upon the action to be taken.

(4) The Syndicate shall report to the Chancellor for communication to the Visitor such action, if any, as it is proposed to take or has been taken upon the results of such inspection or inquiry. Such report shall be submitted with the opinion of the Senate thereon and within such time as the Chancellor may direct.

(5) Where the Senate or the Syndicate does not within a reasonable time take action to the satisfaction of the Chancellor, the Chancellor may, after considering any explanation furnished or representation made by the Senate or the Syndicate, issue such directions as he may think fit and the Senate and the Syndicate shall comply with such directions.

8. There shall be a Chancellor, a  
**The Chancellor,**  
**Pro-Chancellor and** Pro-Chancellor and a Vice-Chancellor  
**Vice-Chancellor** of the University.

9. (1) The Chancellor of the University shall be the Governor of Madras. He shall by virtue

**The Chancellor** of his office be the head of the University and the President of the Senate and shall, when present, preside at meetings of the Senate and at any Convocation of the University.

(2) The Chancellor shall exercise such powers as may be conferred on him under the provisions of this Act.

(3) Where power is conferred upon the Chancellor to nominate persons to authorities, the Chancellor shall, to the extent necessary, nominate persons to represent communities or interests not otherwise adequately represented.

**The Pro-Chancellor** 10. (1) The Pro-Chancellor of the University shall be the Minister administering the subject of education for the time being.

(2) In the absence of the Chancellor, or during the Chancellor's inability to act, the Pro-Chancellor shall exercise all the functions of the Chancellor.

**The Vice-Chancellor** 11. (1) The Vice-Chancellor shall be a whole-time officer of the University and shall be appointed by the Chancellor from among five persons recommended by the Senate. He shall hold office for a term of three years and may be paid such salary as shall be prescribed.

(2) Where any temporary vacancy occurs in the office of Vice-Chancellor the Syndicate shall, as soon as possible, subject to the approval of the Chancellor, make the requisite arrangements for carrying on the duties of the Vice-Chancellor.

**Powers and duties of the Vice-Chancellor** 12. (1) The Vice-Chancellor shall be the principal executive officer of the University and shall, in the absence of the Chancellor and Pro-Chancellor, preside at meetings of the Senate and at any Convocation of the University. He shall be a member ex-officio and Chairman of the Syndicate, of the Academic Council and of the Council of Affiliated Colleges and shall be entitled to be present at and to address at any meeting of any authority of the University but shall not be entitled to



vote thereat unless he is a member of the authority concerned. .

(2) It shall be the duty of the Vice-Chancellor to ensure that the provisions of this Act, the Statutes, Ordinances and Regulations are faithfully observed and carried out and he may exercise all powers necessary for this purpose.

(3) The Vice-Chancellor shall have power to convene meetings of the Senate, the Syndicate, the Academic Council and the Council of Affiliated Colleges.

(4) (a) In any emergency which in the opinion of the Vice-Chancellor requires that immediate action should be taken, he may take such action with the sanction of the Chancellor or Pro-Chancellor and shall as soon as may be thereafter report his action to the officer or authority who or which would have ordinarily dealt with the matter.

(b) When action taken by the Vice-Chancellor under this sub-section affects any person in the service of the University, such person shall be entitled to prefer an appeal to the Syndicate within thirty days from the date on which he has notice of such action.

(5) The Vice-Chancellor shall give effect to the orders of the Syndicate regarding the appointment, dismissal and suspension of the teachers of the University and its servants and shall exercise general control over the affairs of the University.

(6) The Vice-Chancellor shall exercise such other powers as may be prescribed.

**Authorities of the University** 13. The following shall be the authorities of the University:—

- (1) The Senate,
- (2) the Syndicate,
- (3) the Academic Council,
- (4) the Faculties,
- (5) the Boards of Studies,
- (6) the Council of Affiliated Colleges, and
- (7) such other authorities as may be declared by the Statutes to be authorities of the University.

## CHAPTER III—THE SENATE—POWERS AND DUTIES.

**The Senate** 14. The Senate shall consist of the following persons, namely—

*Class I—Ex-officio Members.*

- (1) The Chancellor,
- (2) the Pro-Chancellor,
- (3) the Vice-Chancellor,
- (4) the Director of Public Instruction, Madras.
- (5) the Surgeon-General with the Government of Madras,
- (6) the Chief Engineer, Public Works Department,
- (7) the Advocate-General,
- (8) the Director of Industries,
- (9) the Director of Agriculture,
- (10) the Principals of first-grade colleges,
- (11) the Principals of constituent colleges other than arts colleges,
- (12) the whole-time University Professors paid from University funds, and
- (13) members of the Syndicate who are not otherwise members of the Senate.

*Class II—Life Members.*

Such persons not exceeding five as may be appointed by the Chancellor to be life members on the ground that they have rendered eminent services to education.

All persons who make a donation of not less than Rs. 25,000 to or for the purposes of the University.

*Class III—Other Members.*

(1) Thirty members elected by registered graduates from among themselves according to the principle of proportionate representation by means of the single transferable vote;

(2) ten members elected by the Academic Council and ten members elected by the Council of Affiliated Colleges;

(3) twelve members elected by the non-official members of the Legislative Council of Madras from among their own body;

(4) five persons elected by the Principals of second-grade colleges and three persons elected by headmasters of secondary schools recognized by the Local Government;

(5) four members elected by the Corporation of Madras from among their own body;

(6) two members for each district, one elected by the members of the district board from among themselves, and the other by the municipal councillors of the municipalities in the district from among themselves;

(7) two members elected by the Madras Chamber of Commerce and two by the Southern India Chamber of Commerce;

(8) two members elected by the Madras Landholders' Association;

(9) every association making a donation of not less than Rs. 25,000 and every person making a donation of not less than Rs. 10,000 and every association or person making an annual contribution of not less than Rs. 5,000 to or for the purposes of the University shall be entitled to nominate one member to the Senate who shall be a member for five years or as long as the annual contribution continues, as the case may be;

(10) associations or persons being donors of sums of not less than Rs. 500 to or for the purposes of the University shall elect such number of members not exceeding ten as the Chancellor may fix;

(11) thirty members nominated by the Chancellor of whom not less than twenty shall be nominated to secure the representation of communities not otherwise adequately represented;

(12) one member to represent each of the Chief vernacular languages in the Presidency, such member be-

ing chosen either by nomination or by election in such manner as may be prescribed.

Save as otherwise provided, members of the Senate other than ex-officio members shall hold office for a period of three years; provided however that a member nominated or elected in his capacity as a member of a particular body or as the holder of a particular appointment shall hold office so long only within that period as he continues to be a member of that body or the holder of that appointment as the case may be.

15. The Senate shall be the supreme governing body of the University and shall have the power to review the action of the Syndicate, the Academic Council and the Council of Affiliated Colleges and shall exercise all the powers of the University not otherwise provided for and all powers requisite to give effect to the provisions of this Act.

**Powers of the Senate** 16. The Senate shall have the following powers, namely—

(1) to provide for instruction in such branches of learning as it may think fit and to make provision for research and for the advancement and dissemination of knowledge;

(2) to encourage co-operation and reciprocity among constituent and affiliated colleges with a view to promoting academic life;

(3) to make such provision as will enable constituent colleges to undertake specialization of studies and to organize common laboratories, libraries and other equipment for research work;

(4) to institute professorships, readerships, lecturer-ships and any other teaching posts required by the University and to appoint persons to such professorships, readerships, lecturer-ships and posts;

(5) to institute and award fellowships, travelling fellowships, scholarships, endowments, exhibitions, bursaries, medals and prizes;

(6) to grant to, and confer degrees and other academic distinctions on persons who—

(a) shall have pursued an approved course of study in a constituent or an affiliated college and shall have passed the prescribed examinations of the University, or

(b) shall have carried on research under conditions prescribed;

(7) to confer honorary degrees or other distinctions on approved persons in the manner prescribed;

(8) to provide such lectures and instruction for students of affiliated colleges of the University as the University may determine and also to provide for lectures and instruction to persons not being students of the University and to grant diplomas to them;

(9) to affiliate to itself colleges outside the limits of the University and to allow colleges affiliated to the University before the passing of this Act to continue to exercise the rights and privileges conferred on them by the affiliation and any further rights to be conferred by this Act until such time as they may be transferred to other Universities;

(10) to provide for the inspection of all colleges and hostels;

(11) to institute, maintain and manage constituent colleges, to recognise colleges not maintained by the University as constituent colleges and to withdraw recognition therefrom;

(12) to make recommendations to the Local Government for the recognition of local areas as 'University centres';

(13) to institute, maintain and manage hostels, to recognize hostels not maintained by the University and to withdraw recognition therefrom;

(14) to supervise and control the residence and discipline of the students of the University and to make

arrangements for promoting their health and general welfare;

(15) to fix, demand and receive such fees as may be prescribed;

(16) to enter into any agreement with the Government or with a private management for assuming the management of any institution under it and for taking over its properties and liabilities and for any other purpose not repugnant to the provisions of this Act;

(17) to co-operate with other Universities and authorities in such manner and for such purposes as the University may determine;

(18) to make Statutes and amend or repeal the same;

(19) to consider, modify or cancel Ordinances and Regulations;

(20) to consider and pass resolutions on the annual report, the annual accounts and the financial estimates;

(21) to make Statutes regulating the method of election to the authorities of the University and the procedure at the meeting of the Senate, Syndicate and other authorities of the University and the quorum of members required for the transaction of business by them;

(22) to delegate any of its powers to such authority or authorities as it may deem fit; and

(23) generally to do all such other acts and things as may be necessary or desirable to further the objects of the University.

Nothing in this Act contained shall entitle the Senate to affiliate to the University any college situated within the limits of the University.

17. (1) The Senate shall meet once a year at a meeting to be called the annual meeting of the Senate on a date to be fixed by the Vice-Chancellor. The Senate may also meet at such other times as it may from time to time determine.

(2) Thirty-five members of the Senate shall be the quorum for a meeting of the Senate.

(3) The Vice-Chancellor may, whenever he thinks fit, and shall, upon a requisition in writing signed by not less than 35 members of the Senate, convene a special meeting of the Senate.

#### CHAPTER IV—THE SYNDICATE.

**The Syndicate** 18. The Syndicate shall, in addition to the Vice-Chancellor, consist of the following persons, namely—

##### *Class I—Ex-officio Member*

The Director of Public Instruction, Madras.

##### *Class II—Other Members*

(1) Eight members elected by the Senate from among its members.

(2) Three members elected by the Academic Council from among its members.

(3) Three members elected by the Council of Affiliated Colleges from among its members.

(4) Three members nominated by the Chancellor. Members other than ex-officio members shall hold office for a period of three years, provided that a member nominated or elected in his capacity as a member of a particular body shall hold office so long only within that period as he continues to be a member of that body.

**Powers and duties of the Syndicate**

19. The Syndicate—

(a) shall hold, control and administer the property and funds of the University;

(b) shall direct the form, custody and use of common seal of the University;

(c) shall regulate and determine all matters concerning the University in accordance with this Act, the

Statutes and the Ordinances, provided that no action shall be taken by the Syndicate in respect of fees payable to examiners and the number, qualifications and the emoluments of teachers of the University, otherwise than after consideration of the recommendations of the Academic Council;

(d) shall frame the financial estimates of the University and submit the same to the Senate;

(e) shall administer all funds placed at the disposal of the University for specific purposes;

(f) shall, save as otherwise provided by this Act or the Statutes, appoint the teachers of the University and servants, shall fix their emoluments and may define their duties and the conditions of their service and may provide for the filling of temporary vacancies;

(g) shall have power to accept bequests, donations and transfers of any movable or immovable properties to the University on its behalf, provided that all such bequests, donations and transfers shall be reported to the Senate at its next meeting;

(h) shall arrange for and direct the inspection of all constituent colleges, hostels and affiliated colleges;

(i) shall appoint examiners after consideration of the recommendations of the Academic Council and the Council of Affiliated Colleges;

(j) shall publish the results of the University examinations; and

(k) shall exercise such other powers and perform such other duties as may be conferred or imposed on it by this Act, the Statutes or the Ordinances.

20. The annual report of the University shall be prepared by the Syndicate and shall be submitted to the Senate on or before such date as may be prescribed by the Statutes and shall be considered by the Senate at its next annual meeting. The Senate may pass resolutions thereon and communicate the same to the Syndicate, which shall take action in accordance therewith. The Syndi-



cate shall inform the Senate of the action taken by it. A copy of the report with a copy of the resolutions thereon, if any, of the Senate shall be submitted to the Local Government for information.

21. (1) The annual accounts of the University shall be prepared by the Syndicate and **Annual Accounts** shall be submitted to such examination and audit as the Local Government may direct.

(2) The accounts when audited shall be published by the Syndicate in the *Fort St. George Gazette* and copies thereof shall together with copies of the audit report be submitted to the Senate and the Local Government.

(3) The Syndicate shall also prepare, before such date as may be prescribed by the Statutes, the financial estimates for the ensuing year.

(4) The annual accounts and the financial estimates shall be considered by the Senate at its annual meeting and the Senate may pass resolutions with reference thereto and communicate the same to the Syndicate which shall take action in accordance therewith.

#### CHAPTER V—THE ACADEMIC COUNCIL, THE FACULTIES AND THE COUNCIL OF AFFILIATED COLLEGES.

22. The Academic Council shall be the academic **The Academic Council** authority of the University and shall, subject to the provisions of this Act and the Statutes, have the control and general regulation of teaching and examination within the University and be responsible for the maintenance of the standards thereof and shall exercise such other powers and perform such other duties as may be prescribed.

23. (i) The members of the Academic Council in addition to the Vice-Chancellor shall be—

#### CLASS I—EX-OFFICIO MEMBERS.

- (1) The Director of Public Instruction, Madras;
- (2) the University Professors;

- (3) the Principals of first-grade colleges;
- (4) the Principals of professional colleges;
- (5) any member of the teaching staff of any college who may be appointed or recognized as a University Reader during his tenure of such office.

#### CLASS II—OTHER MEMBERS.

(1) Five Principals of second-grade colleges elected by the Principals of second-grade colleges.

(2) Three members of the teaching staff of each of the constituent colleges to be elected by the members of the staff of the respective colleges.

(3) Five members elected by the Senate from its own body who are not engaged in teaching or members of the Syndicate.

(4) One member of the teaching staff of each of the affiliated first-grade and professional colleges to be elected by that staff.

(ii) The Academic Council as constituted under sub-clause (i) may co-opt as members teachers of the University not exceeding six;

(iii) Members other than ex-officio members shall hold office for a period of three years, provided that persons appointed or elected as representatives of any particular body shall hold office so long only within the said period as they continue to be members of that body;

Provided that no acts or proceedings of the First Academic Council constituted after the passing of this Act shall be deemed to be invalid by reason only of non-compliance with the provisions of sub-clause (3) of class II above.

24. Subject to the provisions of this Act the Academic Council shall have the following powers, namely—

(a) to advise the Syndicate on all academic matters.

(b) to make proposals to the Syndicate for the institution of professorships, readerships, lecturerships,

or other teaching posts and in regard to the duties and emoluments thereof;

(c) to make proposals for regulating the special courses of study or division of subjects in constituent and affiliated colleges;

(d) to make regulations for and to award in accordance with such regulations, medals and other rewards;

(e) to make regulations for the encouragement of co-operation and reciprocity among constituent and affiliated colleges with a view to promoting academic life;

(f) to make regulations regarding the admission of students to the University or prescribing examinations to be recognized as equivalent to University examinations or the further qualifications mentioned in sub-section (i) of section 36 for admission to the degree courses of the University.

(g) to make regulations relating to courses, examinations and the conditions on which students of affiliated colleges shall be admitted to examinations for the degrees of the University;

(h) to constitute from among its own members Faculties in Arts, Science, Law, Medicine, Engineering, Teaching, Commerce and Agriculture and such other subjects as may be prescribed;

(i) to recommend to the Syndicate the names of persons suitable for appointment as Examiners and Assistant Examiners;

(j) to make recommendation to the Syndicate for the recognition of teachers qualified to give instruction in constituent and affiliated colleges and hostels;

(k) to control and manage the University library or libraries, to frame rules regarding its or their use and to appoint a library committee under the general control of the Academic Council to manage the affairs of the library;

(l) to formulate, modify or revise, subject to the control of the Senate, schemes for the constitution or reconstitution of departments of studies;

(m) to assign teachers to departments of studies;

(n) to promote research within the University and to call for reports on such research from the persons engaged thereon and to make recommendations to the Syndicate thereon; and

(o) to forward to the Syndicate or refer back the draft of any regulation prepared by the Council of Affiliated Colleges relating to courses, examinations and the conditions on which students of such colleges may be admitted to examinations for the degrees of the University;

Provided that the Council of Affiliated Colleges shall be consulted in respect of matters referred to in clauses (c), (e), (g), and (j).

25. The University shall include Faculties of Arts, Science, Law, Medicine, Engineering, The Faculties Teaching, Commerce and Agriculture and such other Faculties as may be prescribed. Each Faculty shall comprise such departments of teaching as may be prescribed by the Ordinances. The constitution and functions of the Faculties shall be prescribed by the Statutes. There shall be Boards of Studies attached to each department of teaching, the constitution and powers of which shall be prescribed by the Statutes.

26. (1) The Council of Affiliated Council of Affiliated Colleges Colleges shall consist, in addition to the Vice-Chancellor, of the following:—

- (i) the Principals of affiliated first-grade colleges;
- (ii) five Principals of second-grade colleges elected by the Principals of such colleges;
- (iii) one member for each district elected by the members of the district board and of the municipalities of that district;

(iv) representatives for every affiliated first-grade college, one being elected by the teachers of each of such colleges;

(v) ten persons nominated by the Chancellor; and;

(vi) not more than ten teachers of the University to be appointed by the Academic Council.

(2) Members other than ex-officio members shall hold office for a period of three years, provided that persons appointed or elected as representatives of any particular body shall hold office so long only within the said period as they continue to be members of that body;

Provided that the first Council of Affiliated Colleges shall be deemed to have been duly constituted notwithstanding any non-compliance with clause (vi) of sub-section (1) above;

Provided also that on the Academic Council being duly constituted under the Act it shall forthwith be entitled to appoint ten teachers of the University to the Council of Affiliated Colleges.

**Powers of the  
Council of Affiliated  
Colleges**

27. (1) The Council of Affiliated Colleges shall have the following powers:—

(a) to make proposals to the Syndicate or the Academic Council as the case may be to supplement the teaching provided by the affiliated colleges;

(b) to appoint an executive committee and such special or standing committee as it may consider desirable;

(c) to advise the Syndicate and the Academic Council on any matter affecting affiliated colleges;

(d) to submit draft Regulations and Ordinances to the Academic Council or to the Syndicate as the case may be;

(e) to advise the Syndicate on the affiliation of any institution beyond the limits of the University;

(f) to arrange in consultation with the colleges concerned for co-operation and reciprocity among affiliated colleges and for the concentration and co-ordination of resources for higher teaching and research and for the promotion of university life in suitable localities outside the limits of the University so as to prepare for the institution of new universities;

(g) to make proposals to the Local Government through the Syndicate as to the financial provision that should be made for the affiliated colleges and as to the distribution of grants to such colleges;

(h) to recommend to the Syndicate the names of persons suitable for appointment as Examiners and Assistant Examiners; and

(i) to advise the Academic Council on all matters referred to in section 24, clauses (c), (e), (g) and (j)

(2) The Council of Affiliated Colleges shall exercise such other powers and perform such other duties as may be conferred or imposed upon it by the Statutes.

28. The constitution of such other authorities as may be declared by the Statutes to be  
**Constitution of other authorities** authorities of the University shall be provided for in the manner prescribed.

#### CHAPTER VI—STATUTES, ORDINANCES AND REGULATIONS.

29. Subject to the provisions of this Act, the Statutes  
**Statutes** may provide for all or any of the following matters, namely—

(a) the constitution, powers and duties of the authorities of the University;

(b) The conditions of recommendation by the Senate of local areas to be recognized by the Government as University centres;

(c) the conditions of affiliation with the University of affiliated colleges;

(d) the institution and maintenance of constituent colleges and hostels;

(e) the powers and duties and conditions of service of the Vice-Chancellor;

(f) the powers and duties of the officers of the University other than the Visitor, Chancellor and Pro-Chancellor;

(g) the holding of convocations to confer degrees;

(h) the conferment of honorary degrees;

(i) the institution and award of fellowships, travelling fellowships, scholarships, endowments, exhibitions, bursaries, medals and prizes;

(j) the classification and the mode of appointment of the teachers of the University;

(k) the institution of pension or provident fund for the benefit of the teachers of the University or its servants;

(l) the maintenance of a register of registered graduates;

(m) the discipline of students; and

(n) all matters which by this Act may be prescribed by the Statutes.

**Statutes how made** 30. (1) The first Statutes shall be those set out in Schedule I.

(2) The Statutes may be amended or repealed or added to by Statutes made by the Senate in the manner hereinafter provided.

(3) The Senate may of its own motion take into consideration the draft of any Statute; provided that in any such case before a Statute is passed affecting the powers or duties of any officer or authority, the opinion of the Syndicate and a report from the person or authority concerned shall have been taken into consideration by the Senate.

(4) The Syndicate may propose to the Senate the draft of any Statute. Such draft may be considered by the Senate at its next succeeding meeting. The Senate may approve such draft and pass the Statute or may reject it or return it to the Syndicate for reconsideration either in whole or in part, together with any amendments which the Senate may suggest. After any draft so returned has been further considered by the Syndicate, together with any amendments suggested by the Senate, it shall be again presented to the Senate with the report of the Syndicate thereon, and the Senate may then deal with the draft in any manner it thinks fit.

(5) Where any Statute has been passed by the Senate or a draft of a Statute has been rejected by the Senate it shall be submitted to the Chancellor who may refer the Statute or draft back to the Senate for further consideration or in the case of a Statute passed by the Senate assent thereto or withhold his assent. A Statute passed by the Senate shall have no validity until it has been assented to by the Chancellor.

(6) The Syndicate shall not propose the draft of any Statute or of any amendment to a Statute—

(a) affecting the status, powers or constitution of any authority of the University until such authority has been given an opportunity of expressing an opinion upon the proposal; any opinion so expressed shall be in writing and shall be considered by the Senate and shall be submitted to the Chancellor; or

(b) affecting the conditions of affiliation of affiliated colleges, with the University except after consultation with the Academic Council and the Council of Affiliated Colleges.

31. Subject to the provisions of this Act and the Ordinances Statutes, the Ordinances may provide for all or any of the following matters, namely:—

(a) the admission of students to the University and the levy of fees in colleges maintained by the University;



(b) the conditions under which students may be admitted to the degree or diploma courses and to the examinations of the University and may be eligible for degrees and diplomas;

(c) the conditions of residence of the students of the University and the levy of fees for residence in hostels maintained by the University;

(d) the recognition of constituent colleges and hostels not maintained by the University;

(e) the number, qualifications and emoluments of teachers of the University;

(f) the fees to be charged for courses of teaching given by teachers of the University, for tutorial and supplementary instruction given by the University, for admission to the examinations, degrees and diplomas of the University and for the registration of graduates;

(g) the conditions subject to which persons who may hereafter be permanently employed may be recognised as qualified to give instruction in constituent colleges and hostels;

(h) the appointment and duties of examiners;

(i) the conduct of examinations; and

(j) all matters which by this Act or by the Statutes may be provided for by the Ordinances.

**Ordinances how made** 32. (1) Save as otherwise provided in this section, Ordinances shall be made by the Syndicate:

Provided that the Syndicate shall consult the Academic Council in making Ordinances—

(a) affecting the appointment and duties of examiners or the conduct or standard of examinations or any course of study; or

(b) affecting the conditions of residence of students.

(2) All Ordinances made by the Syndicate shall have effect from such date as it may direct, but every

Ordinance so made shall be submitted as soon as may be to the Chancellor and the Senate and shall be considered by the Senate at its next succeeding meeting. The Senate shall have power by a resolution passed by a majority of not less than two-thirds of the members present at such meeting to cancel or modify any such Ordinance.

(3) The Chancellor may direct that the operation of any Ordinance shall be suspended until such time as the Senate has had an opportunity of considering the same.

33. The Academic Council may  
**Regulations how** make Regulations consistent with this  
**made** Act and the Statutes to carry out the duties assigned to it thereunder.

All such Regulations shall have effect from such date as the Academic Council may direct; but every Regulation so made shall be submitted as soon as may be to the Senate who shall consider it at its next meeting. The Senate shall have power, by a resolution passed by a majority of not less than two-thirds of the members present at such meeting, to cancel or modify any such Regulation.

#### CHAPTER VII—ADMISSION AND RESIDENCE OF STUDENTS.

34. Every student of the University  
**Residences and** shall reside in a hostel or under such  
**Hostels** other conditions as may be prescribed.

35. (1) Colleges and hostels main-  
**Colleges and** tained by the University shall be such  
**Hostels** as may be prescribed.

(2) Colleges and hostels other than those maintained by the University shall be such as may be recognized by the Senate on such general or special conditions as may be prescribed.

(3) The Senate shall have power to suspend or withdraw the recognition of any college or hostel which may not be conducted in accordance with the conditions prescribed, provided that no such action shall be taken without affording the management of such college or hostel an opportunity of making such representation as it may deem fit.

**36. (1)** Students shall not be eligible for admission to a course of study for a degree unless they have passed the Intermediate Examination in Arts and Science of Madras or an examination recognized by the Syndicate as equivalent thereto and possess such further qualifications, if any, as may be prescribed.

**(2)** Every candidate for a University examination shall, unless exempted from the provisions of this subsection by a special order of the Syndicate made on the recommendation of the Academic Council, be enrolled as a member of a constituent college or of an affiliated college. Any such exemption may be made subject to such conditions as the Syndicate may think fit.

**(3)** Students exempted from the provisions of subsection (2) and students admitted, in accordance with the conditions prescribed, to courses of study other than courses of study for a degree shall be non-collegiate students of the University.

**37.** Notwithstanding anything contained in section 36, at any time after the passing of this Act if the Local Government is satisfied that other adequate arrangements have been made for the supervision and control of institutions preparing candidates for the entrance examination to the University, the Local Government may by notification direct that the said University shall cease to exercise any control over the recognition of such institutions and from the date of such notification the University shall cease to exercise such control.

#### CHAPTER VII—GENERAL.

**38.** All casual vacancies among the members (other than ex-officio members) of any authority or other body, of the University shall be filled as soon as conveniently may be by the person or body who appointed, elected or co-opted the members whose place has become vacant and the person appointed, elected, or

co-opted to a casual vacancy shall be a member of such authority or body for the residue of the term for which the person whose place he fills would have been a member.

**Proceedings of the University and bodies not invalidated by vacancies** 39. No act or proceeding of any authority or other body of the University shall be invalidated merely by reason of the existence of a vacancy or vacancies among its members or the invalidity of the election of any of the members.

**Removal from membership of the University** 40. The Senate, may, on the recommendation of not less than two-thirds of the members of the Syndicate, remove the name of any person from the register of graduates and remove any person from membership of any authority of the University if he has been convicted by a Court of Law of what in the opinion of the Senate is a serious offence involving moral delinquency or if he has been guilty of scandalous conduct and for the same reasons may withdraw any degree or diploma conferred or granted by the University.

The Senate may also remove any person from the membership of any authority of the University if he becomes of unsound mind or deaf-mute or suffers from contagious leprosy or has applied to be adjudicated or has been adjudicated a bankrupt or insolvent.

**Disputes as to constitution of University authority** 41. If any question arises whether any person has been duly elected or nominated as or is entitled to be a member of any authority of the University, the question shall be referred to the Chancellor whose decision thereon shall be final.

**Constitution of committees** 42. Where any authority of the University is empowered to appoint committees, such committees shall, unless there be some special provision to the contrary, consist of members of the authority concerned and of such other persons, if any, as the authority in each case may think fit.

**Conditions of service.** 43. (1) Save as otherwise provided, of every salaried officer and teacher of the University shall be appointed under a written contract.

The contract shall be lodged with the Registrar of the University and a copy thereof shall be furnished to the officer or teacher concerned.

(2) Any member of the public services in India whom it is proposed to appoint to a post in the University shall, subject to the approval of such appointment by the Government, have the option—

(i) of having his services lent to the University for a specific period and remaining liable to recall to Government service at the discretion of the Government at the end of that period, or

(ii) of resigning Government service on entering the service of the University: Provided, however, that nothing in this section shall prohibit the employment of a member of the public services as a part-time servant of the University with the approval of the Government.

#### CHAPTER IX—UNIVERSITY FUNDS.

**Funds of the University.** 44. The University shall have a fund to which shall be credited

(1) its income from fees, endowments and grants, if any; and

(2) any contribution by the Local Government.

The Local Government shall contribute annually towards the said fund

(a) a sum equal to the amount of contribution by the Local Government in the financial year prior to the coming into force of this Act towards the recurring expenditure of the University; and

(b) a sum on such conditions as the Local Government may impose towards the salary, if any, of the Vice-Chancellor, the development of laboratory, library, museums and workshops and the salaries of such teachers

of the University as are appointed for higher research and advancement and dissemination of knowledge in particular branches of learning.

45. The Local Government may at any time after the passing of this Act transfer to the University the control and management of any of its institutions on such terms and conditions as it may deem proper. In the case of such transfer, the Local Government shall make a contribution annually of a sum equivalent to the average annual net expenditure from Provincial Funds on the institution during the three years immediately preceding the year of transfer.

#### CHAPTER X—TRANSITORY PROVISIONS

46. Notwithstanding anything contained in this Act or the Ordinances, any student of a college affiliated to the University of Madras established under Act XXVII of 1857, who was studying for any examination of the said University, shall be permitted to complete his course in preparation therefor and the University shall hold for such students examinations in accordance with the curricula of studies of that University for such period as may be prescribed.

47. Notwithstanding anything contained in subsection (1) of section 11 within three months after the passing of this Act the first Vice-Chancellor shall be appointed by the Chancellor on a salary to be fixed by him for a period not exceeding three years and on such other conditions as he thinks fit.

48. (1) It shall be the duty of the Vice-Chancellor to make arrangements for constituting the Senate, the Syndicate, the Academic Council and the Council of Affiliated Colleges within six months after the date of his appointment or such longer period not ex-

ceeding one year as the Local Government may by notification direct.

(2) The Vice-Chancellor shall with the assistance of an advisory committee nominated by the Chancellor draw up any rules that may be necessary for regulating the method of election to those authorities subject to the provisions of the Act and the approval of the Chancellor.

(3) The authorities constituted under sub-section (1) shall commence to exercise their functions on such date or dates as the Local Government may by notification direct.

(4) The Regulations of the University of Madras in force at the time of the coming into operation of sections 3 and 4 of this Act shall, so far as they may be applicable, continue to be in force until they are replaced by the Statutes, Ordinances and Regulations to be framed under this Act.

(5) It shall be the duty of the Vice-Chancellor to draft such Statutes, Ordinances and Regulations as may be necessary and submit them to the respective authorities competent to deal with them for their disposal. Such Statutes, Ordinances and Regulations when framed shall be published in the *Fort St. George Gazette*.

First appointments of University Staff

49. The Vice-Chancellor shall have power—

(1) to appoint such advisory committees as he may think fit, and

(2) to appoint such clerical and menial staff as may be necessary subject to the sanction of the Chancellor.

50. If any difficulty arises as to the first constitution or reconstitution of any authority of the University after the commencement of this Act, or otherwise in first giving effect to the provisions of this Act, the Local Government, as occasion may

Removal by Local Government of difficulties at the commencement of the Act

require, may by order do anything which appears to them necessary for the purpose of removing the difficulty.

# CHAPTER XI—MISCELLANEOUS.

**51.** All property, all rights of whatever kind used, enjoyed, or possessed by, and all interests of whatever kind owned by, or vested in, or held in trust by, or for the University of Madras as constituted under the Indian Universities Act, 1904, as well as all liabilities legally subsisting against the said University shall pass to the University as constituted under this Act.

**Passing of property and rights to the University as reconstituted**

**52.** Where a pension or provident fund has been instituted by the Senate for the benefit of the officers, teachers or servants of the University, the Local Government may declare that the provisions of the Provident Fund Act, 1897, shall apply to such fund as if the University were a local authority and the fund a Government Provident Fund.

**Provident Fund**

**53.** The Senate shall at the end of every five years from the passing of this Act submit a report to the Local Government on the condition of affiliated colleges and on the desirability or otherwise of establishing other Universities outside the limits of the University. The Local Government shall lay the report before the Legislative Council and shall take such action on it as it deems fit.

**Report on affiliated colleges**

**54.** The Senate may, on the recommendation of the Council of Affiliated Colleges and subject to the approval of the Chancellor, create an Affiliated College Fund and make rules as to its management.

**Affiliated College Fund.**

**55.** As from the date on which sections 3 and 4 are brought into operation the enactments specified in Schedule II shall be repealed to the extent specified in the fourth column thereof.

**Repeal of certain enactments.**



## SCHEDULE I.

## THE FIRST STATUTES OF THE UNIVERSITY.

(See section 30).

**Definitions**

I. In these Statutes unless there is anything repugnant in the subject or context—

(a) The 'Act' means the Madras University Act, 1923, and 'section' means a section of the Act and 'clause' or 'sub-clause' means a clause or sub-clause of this Schedule; and

(b) 'Officers,' 'Authorities,' 'Professors,' 'Readers,' 'Lecturers,' 'Teachers,' 'Servants,' and 'Registered Graduates' mean respectively, Officers, Authorities, Professors, Readers, Lecturers, Teachers, Servants and Registered Graduates of the University.

II. Subject to the provisions of the Act, **Powers of the Syndicate** the Syndicate shall have the following powers, namely,—

(a) to institute at its discretion such professorships, readerships, lecturerships or other teaching posts as may be proposed by the Academic Council;

(b) to abolish or suspend after report from the Academic Council thereon any professorship, readership, lecturership, or other teaching post;

(c) to provide or purchase lands, buildings, premises, furniture, laboratory apparatus, equipment and other means needed for carrying on the work of the University;

(d) to invest any moneys belonging to the University including any unapplied income in any of the securities described in section 20 of the Indian Trusts Act,\* 1882, with the power to vary such investments or to place on fixed deposit in any bank approved in this behalf by the Local Government, any portion of such moneys not required for current expenditure; and

(e) to manage constituent colleges and hostels.

III. The Registrar shall act as the Secretary of the Senate, the Syndicate, the Academic Council, and the Council of Affiliated Colleges; he shall, subject to the control of the Syndicate, manage the property and investments of the University. He shall be responsible for the preparation of the financial estimates and the annual accounts. Subject to the powers of the Syndicate, he shall be responsible for seeing that all moneys are expended on the purposes for which they are granted or allotted.

All contracts shall be signed by the Registrar on behalf of the University. He shall exercise such other powers and perform such duties as may be prescribed.

\* II of 1882.

**Quorum** IV. Twenty members of the Council of Affiliated Colleges shall form a quorum for a meeting of the Council.

**Colleges and hostels** V. (a) Every constituent college or hostel not maintained by the University shall be managed by a regularly constituted governing body appointed by the person or body maintaining the college or hostel the constitution of which shall be periodically reported to and approved of by the Syndicate.

(b) The appointment of teachers and superintending staff of every constituent college or hostel shall be made by the governing body, or by any authority to whom such body may have delegated the power and all such appointments shall be subject to the approval of the Syndicate.

(c) Every student not residing in a hostel shall be attached to a constituent college or hostel for tutorial help and disciplinary supervision and for such other purposes as may be prescribed by the Ordinances.

**Honorary Degrees** VI. The Syndicate may, either of its own motion or on the recommendation of the Academic Council, make proposals to the Senate for the conferment of honorary degrees and shall, after the Senate assents thereto, submit such proposals to the Chancellor for confirmation: Provided that in case of urgency the Chancellor may act on the recommendation of the Syndicate only.

**Examinations** VII. All arrangements for the conduct of examinations shall be made by the Syndicate.

**Pension or provident fund** VIII. There shall be instituted for the benefit of the officers, teachers, and servants of the University such pension or provident fund as the Senate may deem fit.

**Register of graduates** IX. All graduates of the University or of the University of Madras as constituted immediately prior to the commencement of this Act, of seven years' standing or upwards, shall on payment of such fees as may be prescribed be entitled to have their names enrolled in the register of registered graduates and upon such enrolment to enjoy all the privileges of registration.

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**SCHEDULE II.**

*Enactments Repealed.*

(See section 55).

Year.	Number.	Short title.	Extent of repeal.
1857	XXVII	The Madras University Act, 1857	So much as is unrepealed.
1904	VIII	The Indian Universities Act, 1904	<p>In sub-section (1) of section 6, the word 'Madras.'</p> <p>In sub-section (a) of section 12, the word 'Madras.'</p> <p>In the first schedule the heading, 'The University of Madras' and the entries under that heading.</p>

# LAWS OF THE UNIVERSITY

## CHAPTER I.

### PRELIMINARY.

1. In these Laws unless a different intention  
Act appears from the subject or context,  
Definitions 'The Laws' of the University means the  
rules laid down in the Act, the Statutes, the Ordinances  
and the Regulations.

'The Act' means the Madras University Act, 1923,  
and 'section' means a section of the Act.

'The University' means the University of Madras  
as reconstituted under the Act.

'Officers,' 'Authorities,' 'Professors,' 'Readers,'  
'Lecturers,' 'Teachers,' 'Servants,' and 'Registered Gra-  
duates' mean respectively Officers, Authorities, Profes-  
sors, Readers, Lecturers, Teachers, Servants, and Regis-  
tered Graduates of the University.

'The Gazette' means 'The Fort St. George Gazette'

'Clear days' means that the time is to be reckoned  
exclusive of both the first and the last days.

'Resolution' means original proposition.

'Motion' means anything moved either by way of  
resolution or amendment.

All words and expressions used herein and defined  
in the Act shall have the meanings so defined.

2. Subject to the provisions of the  
Act, Statutes, etc., by whom made Act, Statutes are made by the Senate,  
Ordinances by the Syndicate and Regu-  
lations by the Academie-Council.

3. (a) Any notice, intimation or information re-  
quired to be given, and any paper,  
Statute minutes or proceedings required to be  
Notices sent to any person by the Laws shall,

unless otherwise provided, be given or sent, by the same being posted to the address of that person.

(b) A member of the Senate, the Academic Council, the Council of Affiliated Colleges, a Faculty, Board of Studies, Board of Examiners or Committee appointed under the Laws shall, if required by the Registrar, give an address to which communications may be sent; and the posting of communications to that address shall be a sufficient compliance with the requirements of the Laws as to notice.

Statute  
Validity of acts  
done on the day  
following a *dies*  
*non*

4. Where by any Law, any act or proceeding is directed or allowed to be done or taken in the office of the Registrar on a certain day or within a prescribed period, and the office is closed on that day or the last day of the prescribed period, the act or proceeding shall be considered as done or taken in due time if it is done or taken on the day on which the office reopens.

Statute  
Hours of busi-  
ness

5. The office of the Registrar shall be open daily for the transaction of business between the hours 11 a.m. and 4 p.m., except on Sundays, the last Saturday of each month, and gazetted holidays. The office may be closed for a day or part of a day on particular occasions at the discretion of the Vice-Chancellor, provided that arrangements are made for the transaction of any urgent business.

## CHAPTER II.

### THE UNIVERSITY.

1. (1) The Chancellor, Pro-Chancellor and Vice-Chancellor of the University and the members of the Senate, the Syndicate, the Academic Council and the Council of Affiliated Colleges are a body corporate by the name of the University of Madras,

Act  
The University

(2) The University shall have perpetual succession and a common seal and shall sue and be sued by the name of the University of Madras.

2. (1) No person shall be excluded from membership of any of the authorities of the University or from admission, to any degree or course of study on the sole ground of sex, race, creed, or class, and it shall not be lawful for the University, to adopt or impose on any person any test whatsoever relating to religious belief or profession in order to entitle him to be admitted thereto as a teacher or student or to hold any office therein or to graduate thereat or to enjoy or exercise any privileges thereof except where in respect of any particular benefaction accepted by the University such test is made a condition thereof.

Act  
**Disqualification for membership**

(2) No person shall be qualified for election or nomination as a member of any of the authorities of the University if he

- (a) is, at the date of election or nomination, of unsound mind, deaf-mute or suffers from contagious leprosy, or
- (b) is an uncertificated bankrupt or undischarged insolvent, or
- (c) has been convicted by a court of law of an offence which involves moral delinquency.

In case of dispute or doubt, the Syndicate shall determine whether a person is disqualified under this sub-section and its decision shall be final.

Act  
**Teaching recognised by the University**

3. (1) No attendance at any instruction other than that conducted or recognised by the University shall qualify for admission to an examination of the University.

(2) The authorities responsible for organising such instruction shall be those prescribed therefor.

(3) The courses of study and curricula shall be those prescribed.

### CHAPTER III.

#### THE VISITOR, CHANCELLOR, PRO-CHANCELLOR AND VICE-CHANCELLOR.

##### *The Visitor.*

Act  
The Visitor

1. The Governor-General shall be the Visitor of the University.

2. The Visitor shall have the right to cause an inspection to be made, by such person or persons as he may direct, of the University, its buildings, laboratories, libraries, museums, workshops and equipment and of any institutions associated with the University and also of the teaching and other work conducted or done by the University and to cause an inquiry to be made in respect of any matter connected with the University. The Visitor shall in every case give notice to the University of his intention to cause such inspection or inquiry to be made and the University shall be entitled to be represented thereat.

3. The Visitor may address the Chancellor with reference to the results of such inspection or inquiry and the Chancellor shall communicate to the Senate and to the Syndicate the views of the Visitor and may, after ascertaining the opinion of the Senate and the Syndicate thereon, advise the University upon the action to be taken.

4. The Syndicate shall report to the Chancellor for communication to the Visitor such action, if any, as it is proposed to take or has been taken upon the results of such inspection or inquiry. Such report shall be submitted with the opinion of the Senate thereon and within such time as the Chancellor may direct.

5. Where the Senate or the Syndicate does not within a reasonable time take action to the satisfaction of the Chancellor, the Chancellor may, after considering any explanation furnished or representation made by the

Senate or the Syndicate, issue such directions as he may think fit and the Senate and the Syndicate shall comply with such directions.

### *The Chancellor.*

6. The Chancellor of the University shall be the Governor of Madras. He shall by virtue of his office be the head of the University and the President of the Senate and shall, when present, preside at meetings of the Senate and at any Convocation of the University.

7. The Chancellor shall exercise the following powers:—

(1) He shall appoint the Vice-Chancellor from among five persons recommended by the Senate.

(2) He may appoint persons not exceeding five in number as life-members of the Senate on the ground that they have rendered eminent services to education.

(3) He shall nominate thirty members of the Senate of whom not less than twenty shall be nominated to secure the representation of communities not otherwise adequately represented.

(4) He shall nominate three members of the Syndicate.

(5) He shall nominate ten members of the Council of Affiliated Colleges.

(6) He shall have the power to refer a Statute or a draft Statute back to the Senate for further consideration and to assent to or withhold his assent from a Statute passed by the Senate.

(7) He shall have the power to suspend the operation of any Ordinance made by the Syndicate until such time as the Senate has had an opportunity of considering the same.



(8) He shall decide in all cases of dispute as to whether any person has been duly elected or nominated as or is entitled to be a member of any authority of the University.

(9) He shall exercise all such powers as are conferred upon him by the Laws of the University.

8. Where power is conferred upon the Chancellor to nominate persons to authorities, the Chancellor shall, to the extent necessary, nominate persons to represent communities or interests not otherwise adequately represented.

#### *The Pro-Chancellor.*

**The Chancellor** <sup>Act</sup> **Pro-Chan-** 9. The Pro-Chancellor of the University shall be the Minister administering the subject of education for the time being.

In the absence of the Chancellor, or during the Chancellor's inability to act, the Pro-Chancellor shall exercise all the functions of the Chancellor.

#### *The Vice-Chancellor.*

**The Chancellor** <sup>Act</sup> **Vice-Chan-** 10. The Vice-Chancellor shall be a whole-time officer of the University and shall be appointed by the Chancellor from among five persons recommended by the Senate. He shall hold office for a term of three years and may be paid such salary as shall be prescribed by Statute.

<sup>Act</sup>  
**Powers and**  
**Duties of the Vice-**  
**Chancellor**

11. Powers and duties:

(1) The Vice-Chancellor shall be the principal executive officer of the University and shall, in the absence of the Chancellor and the Pro-Chancellor, preside at meetings of the Senate and at any convocation of the University. He shall be a member ex-officio and Chairman of the Syndicate, of the Academic Council and of

the Council of Affiliated Colleges and shall be entitled to be present at and to address any meeting of any authority of the University, but shall not be entitled to vote thereat unless he is a member of the authority concerned.

(2) It shall be the duty of the Vice-Chancellor to ensure that the provisions of the Act, the Statutes, Ordinances and Regulations are faithfully observed and carried out and he may exercise all powers necessary for this purpose.

(3) The Vice-Chancellor shall have power to convene meetings of the Senate, the Syndicate, the Academic Council and the Council of Affiliated Colleges.

(4) ((a) In any emergency which in the opinion of the Vice-Chancellor requires that immediate action should be taken, he may take such action with the sanction of the Chancellor or Pro-Chancellor and shall as soon as may be thereafter report his action to the officer or authority who or which would have ordinarily dealt with the matter.

(b) When action taken by the Vice-Chancellor under paragraph (4) (a) affects any person in the service of the University, such person shall be entitled to prefer an appeal to the Syndicate, within thirty days from the date on which he has notice of such action.

(5) The Vice-Chancellor shall give effect to the orders of the Syndicate regarding the appointment, dismissal and suspension of the teachers of the University and its servants and shall exercise general control over the affairs of the University.

(6) The Vice-Chancellor shall exercise such other powers and perform such other duties as may be prescribed.

12. Where any temporary vacancy occurs in the office of Vice-Chancellor the Syndicate shall, as soon as possible, subject to the approval of the Chancellor, make the requisite arrangements for carrying on the duties of the Vice-Chancellor.

**Temporary vacancy** shall, as soon as possible, subject to the approval of the Chancellor, make the requisite arrangements for carrying on the duties of the Vice-Chancellor.

13. When a vacancy occurs or is about to occur in the office of Vice-Chancellor, the Registrar shall, under the direction of the Syndicate, cause a notification of the fact to be published in the Gazette, and a copy of the said notification shall be sent to each member of the Senate.

**Statute  
Election of a  
panel of five per-  
sons for Vice-  
Chancellorship**

14. Each member of the Senate shall have the right to nominate not more than five persons to be recommended by the Senate to the Chancellor. Every nomination shall be in writing and shall be seconded by another member of the Senate, and the proposer shall state on the nomination paper that the nominee has consented to be nominated. Every nomination must reach the Registrar not later than ten days after the publication of the notice in the Gazette.

15. If the number of nominees does not exceed five, the Registrar shall, under the direction of the Syndicate, communicate the names of the nominees to the Chancellor who shall appoint one of them as Vice-Chancellor.

16. If the number of nominees exceeds five, the Registrar shall forward to each member of the Senate a voting paper which shall bear on it the date of posting together with a notice stating the date of the election, the hour of the closing of the ballot and the day and hour for the scrutiny and counting of votes.

17. The voting papers when filled up in accordance with the instructions thereon shall be returned to the Registrar by registered post or may be deposited in the ballot box at the Senate House on the day and between the hours fixed for the election. All voting papers not sent by registered post or not deposited in the ballot box between the hours fixed, and all voting papers arriving after the hour fixed for the closing of the ballot box shall be treated as invalid.

18. The number of nominees for whom each elector may vote may be less but shall not be more than five, and any voting paper which contains votes for a number of nominees in excess of five shall be treated as invalid.

19. Voting papers on which there has been placed any mark by which the voter may be identified, *e.g.*, initials or writing of any kind, shall be rejected as invalid.

20. The scrutiny of the nomination papers and the scrutiny and counting of votes shall be conducted by three members of the Senate, who are not themselves nominees, appointed by the Syndicate. The Committee shall have power to decide the validity or invalidity of each nomination and of each vote recorded.

21. Every member of the Senate and every nominee shall be entitled to be present at the scrutiny and counting of votes.

22. The Registrar shall, under the direction of the Syndicate, report to the Chancellor the names of the five persons who receive the highest number of votes as the five persons recommended by the Senate and the Chancellor shall appoint one of them to be Vice-Chancellor. In the event of two or more nominees obtaining an equal number of votes for the fifth place the final selection of the fifth nominee shall be made by the drawing of lots in such manner as the Committee may determine.

23. In the list submitted to the Chancellor the names of the nominees shall be arranged according to the number of votes received by them.

Statute  
Salary of Vice-  
Chancellor

24. The Vice-Chancellor shall be paid a salary of Rs. 2,000 *per mensem*.

25. The Vice-Chancellor when travelling on University business shall be entitled to travelling allowance on the scale laid down in the Civil Service Regulations as payable to first class officers.

Statute  
Travelling allow-  
ance

Statute  
Leave

26. The Vice-Chancellor shall be entitled to one month's leave on full pay for every eleven months of duty.

27. The Syndicate shall have power, subject to the approval of the Chancellor, to make such arrangements as may be necessary for carrying on the duties of the Vice-Chancellor during his absence.

Act  
Arrangements  
during absence

#### CHAPTER IV.

#### THE AUTHORITIES OF THE UNIVERSITY

##### *General.*

1. The following shall be the authorities of the University :—

Act  
Authorities  
of the University

- (1) the Senate,
- (2) the Syndicate,
- (3) the Academic Council,
- (4) the Faculties,
- (5) the Boards of Studies,
- (6) the Council of Affiliated Colleges, and
- (7) such other authorities as may be declared by the Statutes to be authorities of the University ;

and these authorities shall be constituted as prescribed by the Laws.

2. All casual vacancies among the members (other than ex-officio members) of any authority or other body of the University shall be filled as soon as conveniently may be by the person or body who appointed, elected or co-opted the members whose place has become vacant and the person appointed, elected or co-opted to a casual vacancy shall be a member of such authority or body for the residue of the term for which the person whose place he fills would have been a member.

Act  
Filling of casual  
vacancies

3. No act or proceeding of any authority or other body of the University shall be invalidated merely by reason of the existence of a vacancy or vacancies among its members or the invalidity of the election of any of the members.

Act  
Proceedings of  
the University and  
bodies not invali-  
dated by vacan-  
cies

4. The Senate may, on the recommendation of not less than two-thirds of the members of the Syndicate, remove the name of any person from the register of graduates and remove any person from membership of any authority of the University, if he has been convicted by a Court of Law of what, in the opinion of the Senate, is a serious offence involving moral delinquency or if he has been guilty of scandalous conduct and for the same reasons may withdraw any degree or diploma conferred or granted by the University.

Act  
Removal from  
membership of the  
University.

The Senate may also remove any person from the membership of any authority of the University, if he becomes of unsound mind or deaf-mute or suffers from contagious leprosy or has applied to be adjudicated or has been adjudicated a bankrupt or insolvent.

5. If any question arises, whether any person has been duly elected or nominated as or is entitled to be a member of any authority of the University, the question shall be referred to the Chancellor whose decision thereon shall be final.

Act  
Disputes as to  
constitution of Uni-  
versity Authority.

6. Where any authority of the University is empowered to appoint committees, such committees shall, unless there be some special provision to the contrary, consist of members of the authority concerned and of such other persons, if any, as the authority in each case may think fit.

Act  
Constitution of  
Committees

## CHAPTER V.

### *Legislation.*

1. The Laws of the University consist, in addition to the provisions of the Act, of Statutes, Ordinances and Regulations made subject to the provisions of the Act,

Act  
Laws of the  
University

*Status.*

Act  
Matters comp-  
rising Statutes

2. Subject to the provisions of the Act, the Statutes may provide for all or any of the following matters, namely:—

(a) the constitution, powers and duties of the authorities of the University;

(b) the conditions of recommendation by the Senate of local areas to be recognised by the Government as University centres;

(c) the conditions of affiliation with the University of affiliated colleges;

(d) the institution and maintenance of constituent colleges and hostels;

(e) the powers, duties and conditions of service of the Vice-Chancellor;

(f) the powers and duties of the officers of the University other than the Visitor, Chancellor and Pro-Chancellor;

(g) the holding of convocations to confer degrees;

(h) the conferment of honorary degrees;

(i) the institution and award of fellowships, travelling fellowships, scholarships, endowments, exhibitions, bursaries, medals and prizes;

(j) The classification and mode of appointment of the teachers of the University;

(k) the institution of pension or provident fund for the benefit of the teachers of the University or its servants;

(l) the maintenance of a register of registered graduates;

(m) the discipline of students; and

(n) all matters which by the Act may be prescribed by the Statutes.

Act  
Statutes how made      3. The Statutes may be amended or repealed or added to by Statutes made by the Senate in the manner hereinafter provided.

Act      4. The Senate may of its own motion take into consideration the draft of any Statute; provided that in any such case before a Statute is passed affecting the powers or duties of any officer or authority, the opinion of the Syndicate and a report from the person or authority concerned shall have been taken into consideration by the Senate.

Act      5. The Syndicate may propose to the Senate the draft of any Statute. Such draft may be considered by the Senate at its next succeeding meeting. The Senate may approve such draft and pass the Statute or may reject it or return it to the Syndicate for reconsideration, either in whole or in part together with any amendments which the Senate may suggest. After any draft so returned has been further considered by the Syndicate together with any amendments suggested by the Senate, it shall be again presented to the Senate with the report of the Syndicate thereon and the Senate may then deal with the draft in any manner it thinks fit.

Act      6. Where any Statute has been passed by the Senate or a draft of a Statute has been rejected by the Senate it shall be submitted to the Chancellor who may refer the Statute or draft back to the Senate for further consideration or in the case of a Statute passed by the Senate assent thereto or withhold his assent. A Statute passed by the Senate shall have no validity until it has been assented to by the Chancellor.

Act      7. The Syndicate shall not propose the draft of any Statute or of any amendment to a Statute—

(a) affecting the status, powers or constitution of any authority of the University until such authority has



been given an opportunity of expressing an opinion upon the proposal; any opinion so expressed shall be in writing and shall be considered by the Senate and shall be submitted to the Chancellor; or

(b) affecting the conditions of affiliation of affiliated colleges with the University except after consultation with the Academic Council and the Council of Affiliated Colleges.

### *Ordinances.*

Act  
Matters comprising Ordinances. 8. Subject to the provisions of the Act and the Statutes, the Ordinances may provide for all or any of the following matters, namely:—

(a) the admission of students to the University and the levy of fees in colleges maintained by the University;

(b) the conditions under which students may be admitted to the degree or diploma courses and to the examinations of the University and may be eligible for degrees and diplomas;

(c) the conditions of residence of the students of the University and the levy of fees for residence in hostels maintained by the University;

(d) the recognition of constituent colleges and hostels not maintained by the University;

(e) the number, qualifications and emoluments of teachers of the University;

(f) the fees to be charged for courses of teaching given by teachers of the University, for tutorial and supplementary instruction given by the University, for admission to the examinations, degrees and diplomas of the University and for the registration of graduates;

(g) the conditions subject to which persons who may hereafter be permanently employed may be recognized as qualified to give instruction in constituent colleges and hostels;

(h) the appointment and duties of examiners;

- (i) the conduct of examinations;
- (j) the departments of teaching to be comprised in each Faculty; and
- (k) all matters which by the Act or by the Statutes may be provided for by the Ordinances.

Act  
 Ordinances, who  
 and by whom  
 made

9. Ordinances shall be made by the Syndicate, provided that the Syndicate shall consult the Academic Council in making Ordinances—

(a) affecting the appointment and duties of examiners or the conduct or standard of examinations or any course of study; or

(b) affecting the conditions of residence of students.

10. All Ordinances made by the Syndicate shall have effect from such date as it may direct, but every Ordinance so made shall be submitted as soon as may be to the Chancellor and the Senate and shall be considered by the Senate at its next succeeding meeting. The Senate shall have power, by a resolution passed by a majority of not less than two-thirds of the members present at such meeting to cancel or modify any such Ordinance.

The Chancellor may direct that the operation of any Ordinance shall be suspended until such time as the Senate has had an opportunity of considering the same.

Act  
 Regulations, by  
 whom and how  
 made

11. The Academic Council may make Regulations consistent with the Act and the Statutes to carry out the duties assigned to it thereunder.

All such Regulations shall have effect from such date, as the Academic Council may direct; but every Regulations so made shall be submitted as soon as may be to the Senate who shall consider it at its next meeting. The Senate shall have power, by a resolution passed by a majority of not less than two-thirds of the members present at such meeting, to cancel or modify any such Regulation.

**Act** 12. In particular the Academic  
**Matters comprising Regulation** Council has the power—

(a) to make regulations for and to award in accordance with such regulations medals and other rewards;

(b) to make regulations for the encouragement of co-operation and reciprocity among constituent and affiliated colleges with a view to promoting academic life;

(c) to make regulations regarding the admission of students to the University or prescribing examinations to be recognized as equivalent to University Examinations or the further qualifications mentioned in sub-section (i) of section 36 for admission to the degree courses of the University.

(d) to make regulations relating to courses, examinations and the conditions on which students of affiliated colleges shall be admitted to examinations for the degrees of the University.

## CHAPTER VI.

### ELECTIONS TO THE AUTHORITIES OF THE UNIVERSITY.

#### GENERAL.

1. Except as otherwise provided in the Laws, the  
**Statute**  
**Vice-Chancellor**  
**responsible for all**  
**elections** Vice-Chancellor shall be responsible for the conduct of all elections and shall have power (1) to fix the date of elections, (2) to determine the manner in which votes shall be counted, (3) to decide the validity or invalidity of each vote recorded and (4) to declare the results of each election. Unless specifically provided otherwise, and subject to Section 41 of the Act, the decision of the Vice-Chancellor on any question relating to such elections shall be final.

**Statute**  
**Elections in**  
**anticipation of**  
**vacancies** 2. The Vice-Chancellor shall have power to hold elections in anticipation of vacancies that are about to occur owing to efflux of time.

3. In the case of persons holding office as Principals of colleges, members of the teaching staffs (or teachers) of colleges, and Statute  
Eligibility of persons to continue in office of Headmasters of recognized Secondary Schools, the persons for the time being performing the duties of each such office shall, during the continuance of the performance of such duties, have all the rights and powers vested in the person holding such office by the Act and by these Laws.

'Members of the teaching staffs (or teachers) of colleges' means persons who have been recognized as such by the Syndicate, on the recommendation of the Academic Council, and in the case of affiliated colleges, on the recommendation of the Council of Affiliated Colleges also. 'Headmasters of recognized Secondary Schools' means Headmasters of complete and incomplete Secondary Schools recognised by the Local Government.

4. In the case of all elections in Statute  
Arrangement of nominees in voting paper which voting papers are issued by the University, the names of the candidates shall be placed in alphabetical order.

5. No election to an authority of the University shall be invalid by reason of any vacancy among the number of persons entitled to vote at such election, or in the case of a postal vote on account of the loss in the post Statute  
Election not invalid by reason of vacancy in electorates of any notice or voting paper.

6. The results of all elections shall be published in the Gazette and shall have effect from the date fixed in such notification. Statute

#### THE SENATE

#### *Register of Graduates*

7. (1) The Syndicate shall maintain a register on which any graduate of the University or of the University as constituted prior to the commencement of the Act, who became eligible for a degree in any Faculty not less Statute IX in Schedule I  
Register of Graduates

than seven years before registration, shall be entitled to have his name entered and retained subject to the following provisions:—

He shall apply in the prescribed form to the Registrar and pay a consolidated fee of rupees five, which will entitle him to have his name entered and retained in the register for life. A graduate who, prior to the passing of this Statute (29th March 1927) had registered his name at any time for a term, shall, on payment of such amount as will bring up his total payment to rupees five, be registered for life. No refunds shall be made by the University to registered graduates in respect of payments of sums in excess of rupees five.

(2) Any graduate, whose name is on the register, shall be entitled to inspect it during office hours on application to the Registrar and shall be entitled on payment of rupees two to have a copy of it, sent to him, corrected to date.

*A.—Thirty members elected by registered graduates from among themselves, according to the principle of proportionate representation by means of the single transferable vote.*

8. If any vacancy occurs among the members of the Senate elected by registered graduates from among themselves, the Registrar, under the directions of the Vice-Chancellor, shall cause a notification of the fact to be published in the Gazette.

9. Those graduates only whose names are on the register seven clear days prior to the date of the notification published in accordance with Law 8 above, shall be eligible for election and entitled to vote. A notice of at least fourteen clear days shall be given prior to the publication of the notification in accordance with Law 8. Each registered graduate shall be at liberty to nominate a qualified person to fill the vacancy. Every nomination shall be made by

an elector in writing and shall be seconded by another elector. Every such nomination shall be accompanied by the consent in writing of the nominee agreeing to serve on the Senate, if elected, and must reach the Registrar not later than ten days after the publication of the notice in the Gazette.

10. If the number of nominees does not exceed the number of vacancies to be filled, the  
 Statute Vice-Chancellor shall declare such nominees to be elected.

11. If the number of nominees exceeds the number of vacancies to be filled, the Registrar  
 Statute shall announce, by notification in the Gazette, the day appointed by the Vice-Chancellor for the election, the hours between which votes may be recorded, the day and hour when the scrutiny and counting of votes will begin, the number of vacancies and the names of the persons nominated. The date of the notification shall be not less than fourteen days previous to the date so appointed.

12. Not less than fourteen days before the date fixed for the poll, the Vice-Chancellor shall  
 Statute issue through the post a declaration paper  
 Notices and vot- and a voting paper to each  
 ing papers elector to the address entered against his name in the list of registered graduates, unless the elector has, since the publication of the list, changed his address and intimated the fact in writing to the Registrar.

13. The declaration shall be in Form I, and the voting paper in Form II. The declaration  
 Statute paper shall bear on it a serial number corresponding to the number which a voter bears on the electoral roll. To each voter shall be issued the declaration paper and the voting paper.

14. Before the declaration papers  
 Statute and voting papers are issued, the Vice-Chancellor shall—

(a) have the name of each elector entered on a declaration paper and

(b) satisfy himself that a declaration paper and voting paper are being issued to each elector.

15. With the declaration paper and the voting paper the Vice-Chancellor shall send a cover  
Statute addressed to himself in Form III, bearing on its face the serial number of the voter, an envelope marked "voting paper" and a letter in Form IV.

16. Each elector upon receipt of the papers shall, if he desires to vote in the election, sign  
Statute. the declaration in the declaration paper and record his vote on the voting paper.

17. (1) Every elector shall have  
Statute one transferable vote.

(2) An elector in giving his vote—

(a) must place on his voting paper the figure 1 opposite the name of the candidate for whom he votes;

(b) may, in addition, place on his voting paper the figure 2 or the figures 2 and 3 and so on opposite the names of other candidates in the order of his preference;

18. The elector shall then enclose the voting paper in the envelope and stick it up  
Statute and enclose the envelope and the declaration paper in the cover, and send the cover by Registered Post to the Vice-Chancellor so as to reach him not later than the day and the latest hour fixed for the poll. Covers received after such day and hour and covers not sent by Registered Post shall be rejected. No cover may contain more than one declaration paper and one voting paper.

Provided that, at his option, the elector may, either in person or by an agent, deposit the cover in a ballot box at the Senate House on the day and during the hours fixed for the poll.

19. (1) If an elector is incapacitated from blindness  
Statute or other physical cause from voting in the manner prescribed above it shall

be competent for him to record his vote by the hand of any of the officers or other persons empowered to attest his declaration; and such officer or other person shall, on the declaration paper, certify the incapacity and attest the fact of his having been requested by the elector to mark the voting paper for him and of its having been so marked by him in the presence of the elector.

(2) The following officers or other persons are empowered to attest votes of incapacitated electors:—

Magistrates (under the Code of Criminal Procedure),

Judges of and above the rank of District Munsiffs,

District Registrars,

Sub-Registrars,

District Educational Officers,

Deputy Inspectors of Schools,

Principals of Constituent or Affiliated Colleges,

Headmasters of recognized High Schools, and

Members of the Senate, or of the Academic Council, or of the Council of Affiliated Colleges.

20. An elector who has not received his ballot and  
 Statute other connected papers sent by post or  
 whose papers, before their despatch back  
 to the Vice-Chancellor, have been inadvertently spoilt in  
 such manner that they cannot be conveniently used or  
 who has lost his papers may, on his transmitting to the  
 Vice-Chancellor a declaration to that effect signed by him-  
 self, require the Vice-Chancellor to send him new papers in  
 place of those not received, spoilt or lost; and, if the  
 papers have been spoilt, the spoilt papers shall be return-  
 ed to the Vice-Chancellor who shall cancel them on receipt.  
 In every case when new papers are issued, a mark shall be  
 placed against the number of the elector's name in the  
 register to denote that new papers have been issued in  
 place of those not received, spoilt or lost.

21. No person shall be present at the scrutiny and  
 counting of votes except the Vice-Chan-  
 Statute cellor, such persons as he may appoint to  
 assist him, the candidates and not more than two repre-  
 sentatives of each candidate appointed in writing by him.



amine the papers contained in the sub-parcel last received by the elected candidate and shall arrange the transferable papers therein in further sub-parcels according to the next preferences recorded thereon.

(c) In either case the Vice-Chancellor shall make a separate sub-parcel of the non-transferable papers and shall ascertain the number of papers in each sub-parcel of transferable papers and in the sub-parcel of non-transferable papers.

(3) If the total number of papers in the sub-parcels of transferable papers is equal to or less than the surplus, the Vice-Chancellor shall transfer each sub-parcel of transferable papers to the continuing candidate indicated thereon as the voters' next preference.

(4) (a) If the total number of transferable papers is greater than the surplus, the Vice-Chancellor shall transfer from each sub-parcel the number of papers which bears the same proportion to the number of papers in the sub-parcel as the surplus bears to the total number of transferable papers.

(b) The number of papers to be transferred from each sub-parcel shall be ascertained by multiplying the number of papers in the sub-parcel by the surplus and dividing the result by the total number of transferable papers. Note shall be made of the fractional parts, if any, of each number so ascertained.

(c) If, owing to the existence of such fractional parts, the number of papers to be transferred is less than the surplus, so many of these fractional parts taken in the order of their magnitude, beginning with the largest as are necessary to make the total number of papers to be transferred equal to the surplus, shall be reckoned as of the value of unity, and the remaining fractional parts shall be ignored. If two or more fractional parts are of equal magnitude, that fractional part shall be deemed to be the larger which arises from the larger sub-parcel and if the sub-parcels in question are equal in size, preference shall be given to the candidate who obtained the larger number of original votes.

(d) The particular papers to be transferred from each sub-parcel shall be those last filed in the sub-parcel.

(e) Each paper transferred shall be marked in such a manner as to indicate the candidate for and to whom the transfer is made.

(5) (a) If more than one candidate has a surplus, the largest surplus shall be first dealt with.

(b) If two or more candidates have each the same surplus, regard shall be had to the number of original votes obtained by each candidate, and the surplus of the candidate credited with the largest number of original votes shall be first dealt with and, if the numbers of the original votes are equal the Vice-Chancellor shall decide which surplus he will first deal with.

(c) The Vice-Chancellor need not transfer the surplus of an elected candidate when that surplus together with any other surplus not transferred is less than the difference between the total of the votes credited to the two continuing candidates lowest on the roll.

29. (1) If at any time no candidate has a surplus (or when under the preceding statute any existing surplus need not be transferred) and one or more vacancies remain unfilled, the Vice-Chancellor shall exclude from the poll the candidate credited with lowest number of votes and shall examine all the papers of that candidate, and shall arrange the transferable papers in sub-parcels according to the next preferences recorded thereon for continuing candidates, and shall transfer each sub-parcel to the candidate for whom that preference is recorded.

The Vice-Chancellor shall make a separate sub-parcel of the non-transferable papers.

(2) If the total of the votes of the two or more candidates lowest on the poll, together with any surplus votes not transferred, is less than the votes credited to the next highest candidate, the Vice-Chancellor may in one operation exclude those candidates from the poll and

transfer their votes in accordance with the preceding statute.

(3) If, when a candidate has to be excluded under this statute, two or more candidates have each the same number of votes and are lowest on the poll, regard shall be had to the number of original votes credited to each of those candidates, and the candidate with fewest original votes shall be excluded and, where the numbers of the original votes are equal, regard shall be had to the total number of votes credited to those candidates at the first transfer at which they had an unequal number of votes and the candidate with the lowest number of votes at that transfer shall be excluded, and, where the numbers of votes credited to those candidates were equal at all transfers, the Vice-Chancellor shall decide by casting lots which shall be excluded.

30. (1) Whenever any transfer is made under any Statute of the preceding statutes, each sub-  
parcel of papers transferred shall be added to the parcel, if any, of papers of the candidate to whom the transfer is made, and that candidate shall be credited with one vote in respect of each paper transferred. Such papers as are not transferred shall be set aside as finally dealt with and the votes given thereon shall thenceforth not be taken into account.

(2) If after any transfer a candidate has a surplus, that surplus shall be dealt with in accordance with and subject to the provisions contained in statute 28 before any other candidate is excluded.

31. (1) When the number of continuing candidates is reduced to the number of vacancies Statute remaining unfilled the continuing candidates shall be elected.

(2) When only one vacancy remains unfilled, and the votes of some one continuing candidate exceed the total of all the votes of the other continuing candidates together with any surplus not transferred, that candidate shall be elected.

(3) When the last vacancies can be filled under this statute, no further transfer of votes need be made.

Statute                      32. The Vice-Chancellor shall then declare the names of the candidates who have been duly elected.

Statute                      33. Any candidate or his agent may at any time during the counting of the votes, either before the commencement or after the completion of any transfer of votes (whether surplus or otherwise), request the Vice-Chancellor to re-examine and recount the papers of all or any candidates (not being papers set aside at any previous transfer as finally dealt with) and the Vice-Chancellor shall forthwith re-examine and recount the same accordingly. The Vice-Chancellor may also at his discretion recount votes either once or more often in any case in which he is not satisfied as to the accuracy of any previous count: Provided that nothing herein shall make it obligatory on the Vice-Chancellor to recount the same votes more than once.

Statute                      34. In the above statutes—

(1) "continuing candidate" means any candidate not elected and not excluded from the poll;

(2) "first preference" means the figure "1" "second preference" means the figure "2" and "third preference" means the figure "3," set opposite the name of any candidate, and so on;

(3) "transferable paper" means a voting paper on which a second or subsequent preference is recorded for a continuing candidate;

(4) "non-transferable paper" means a voting paper on which no second or subsequent preference is recorded for a continuing candidate;

Provided that a paper shall be deemed to be a non-transferable paper in any case in which

(a) the names of two or more candidates (whether continuing or not) are marked with the same figure and are next in order of preference; or

(b) the name of the candidate next in order of preference (whether continuing or not) is marked.

(1) by a figure not following consecutively after some other figure on the voting paper; or

(2) by two or more figures;

(5) "original vote" in regard to any candidate, means a vote derived from a voting paper on which a first preference is recorded for that candidate;

(6) "transferred vote" in regard to any candidate means a vote derived from a voting paper on which a second or subsequent preference is recorded for that candidate;

(7) "surplus" means the number of votes by which the total number of the votes, original and transferred, credited to any candidate exceeds the quota.

Statute 35. The Vice-Chancellor shall prepare a form showing—

(1) the number of electors who voted,

(2) the number of voting papers rejected,

(a) as being received too late,

(b) for being sent by ordinary post or in other than the prescribed ways,

(c) for irregularities connected with the declaration,

(d) as invalid.

36.

## FORM I

### DECLARATION PAPER.

#### *Election to the Senate*

Registered Graduates' constituency.

Serial No.

Electors' name and number on the register,

## ELECTOR'S DECLARATION.

I (name in full and designation)  
 declare that I am a Registered Graduate for this constituency and have signed no other voting paper at this election for this constituency.

*Signature*

Address

Date

Station

## FORM II

## FORM OF VOTING PAPER.

*Madras University Act, 1923*

## CONSTITUTION OF THE SENATE.

*Election by Registered Graduates.*

Mark order of preference in spaces below.	Names of Candidates.
.....	.....
.....	.....
.....	.....
.....	.....
.....	.....
.....	.....

## DIRECTIONS FOR THE GUIDANCE OF THE VOTER.

Vote by placing the figure 1 in the space opposite the name of the candidate for whom you vote. You may also place the figure 2 in the space opposite the name of the candidate who is your second choice, and the figure 3 in the space opposite the name of the candidate who is your third choice; and so on. Crosses must not be used.

A voting paper is invalid on which—

(a) the figure 1 is not marked; or

(b) the figure 1 is set opposite the name of more than one candidate; or .

(c) the figure 1 and some other figure is set opposite the name of the same candidate; or

(d) the figure 1 is so placed as to make it uncertain for which candidate it is intended; or

(e) any mark is placed by the voter by which he may afterwards be identified, *e.g.*, initials or writing of any kind.

Declaration papers need not be attested, but in the case of an elector who is incapacitated from blindness or other physical cause from voting in the manner prescribed above, it shall be competent for him to record his vote by the hand of any of the following officers or other persons:—

Magistrates under the Code of Criminal Procedure; Judges of and above the rank of District Munsiffs; District Registrars; Sub-Registrars; District Educational Officers; Deputy Inspectors of Schools; Principals of Constituent or Affiliated Colleges, Headmasters of recognized High Schools and Members of the Senate, or of the Academic Council or of the Council of Affiliated Colleges; and such officer or other person shall, on the declaration paper, certify the incapacity and attest the fact of his having been requested by the elector to mark the voting paper for him and of its having been so marked by him in the presence of the elector.

After marking the voting paper, the elector will, in accordance with the instructions given in the letter of intimation sent herewith, return the voting paper to the Vice-Chancellor, University of Madras, Senate House, Triplicane P.O., Madras, *by registered post* so as to reach him not later than p.m. on or may in person or by messenger deposit the same in the ballot box provided for the purpose at the Senate House between the hours 11 a.m. and 4 p.m. on the same day.

If the voter inadvertently spoils a voting paper, he can return it to the Vice-Chancellor who will, if satisfied of such inadvertence, issue to him another paper.

SENATE HOUSE,

*Dated*

*Vice-Chancellor.*

### FORM III

Form of Face of Cover.

*Election to the Senate by Registered Graduates.*

To

The Vice-Chancellor,

University of Madras,

Senate House,

*Triplicane, Madras.*

### FORM IV

Form of Letter of Intimation.

*Registered Graduates' Constituency*

SIR,

The persons whose names are printed on the ballot papers sent herewith have been nominated as candidates for the Senate. Should you desire to vote at this election, I have to request that you will—

(a) sign the declaration paper;

(b) mark your vote in the column provided for the purpose in the ballot paper;

(c) enclose the ballot paper in the smaller envelope; and stick it up and

(d) put the smaller envelope and the declaration paper in the cover addressed to me and return it to me by registered post so as to reach me not later than

$\frac{A. M.}{P. M.}$



on the day of 192 ,  
or deposit the cover addressed to me in the ballot  
box provided for the purpose at the Senate House between  
and on the same day.

Voting papers will be rejected—

(1) if they arrive after the hour fixed for the closing of the poll,

(2) if they are not either sent by registered post or deposited in the ballot box at the Senate House on the date fixed,

(3) if the outer cover does not contain the declaration paper,

(4) if the declaration paper is put in the small envelope with the voting paper.

(5) if the declaration paper is not the one sent by the Vice-Chancellor,

(6) if the declaration or attestation is not in order.

Station,

Dated

Vice-Chancellor.

**Election by Academic Council and Council of Affiliated Colleges**

*B.—Ten members elected by the Academic Council and ten members elected by the Council of Affiliated Colleges.*

Statute

37. If any vacancy occurs among the members of the Senate elected by the Academic Council or the Council of Affiliated Colleges, the Registrar, under the directions of the Vice-Chancellor, shall cause a notification of the fact to be published in the Gazette.

38. Each elector shall be at liberty to nominate a qualified person to fill the vacancy. Every nomination shall be made by an elector in writing and shall be seconded by another elector. Every such nomination shall be accompanied by the

consent in writing of the nominee agreeing to serve on the Senate, if elected, and must reach the Registrar not later than ten days after the publication of the notice in the Gazette.

39. If the number of nominees does not exceed the number of vacancies to be filled, the  
Statute Vice-Chancellor shall declare such nominees to be elected.

40. If the number of nominees exceeds the number  
Statute of vacancies to be filled, the Registrar shall forward to each elector a voting paper which shall bear on it the date of posting together with a notice stating the number of vacancies, the date of the election, the hour of the closing of the ballot, and the day and hour of the scrutiny and counting of votes. The date of the election shall be not less than fourteen days from the date of the posting of the voting papers.

41. The number of nominees for whom each elector  
Statute may vote may be less but shall not be more than the number of vacancies to be filled, and any voting paper which contains votes for any number of nominees in excess of the number of vacancies shall be treated as invalid.

42. The voting papers when filled up shall be returned  
Statute to the Registrar in accordance with the directions thereon given by the Vice-Chancellor to secure the secrecy of the ballot and so as to reach the Registrar not later than the day and hour notified for the closing of the ballot. Every elector shall be at liberty to be present at the scrutiny and counting of votes. In the event of an equality of votes between any two or more nominees the final selection of the nominee to fill the vacancy shall be made by the Vice-Chancellor from among the nominees receiving such equality of votes by drawing lots in such manner as he may determine.

**Election by the  
Legislative Coun-  
cil and Corpora-  
tion of Madras**

**C.—(a)** *Twelve members elected by the non-official members of the Legislative Council from among their own body.*

**(b)** *Four members elected by the Corporation of Madras from among their own body.*

**43.** The President of the Legislative Council and the President of the Corporation of Madras respectively shall be requested by the Registrar under the directions of the Vice-Chancellor to arrange for filling vacancies arising amongst the members of the Senate elected by these bodies. The election shall be conducted in such manner as the President concerned may determine.

**Elections by  
Principals and  
Headmasters**

**D.—(a)** *Five persons elected by the Principals of second-grade colleges.*

**(b)** *Three persons elected by the Headmasters of recognized secondary schools.*

**44.** If any vacancy occurs among the members of the Senate elected by the Principals of second-grade colleges (the headmasters of recognized secondary schools), the Registrar, under the directions of the Vice-Chancellor, shall cause a notification of the fact to be published in the Gazette.

**45.** Each elector shall be at liberty to nominate a qualified person to fill the vacancy. Every nomination shall be made by an elector in writing and shall be seconded by another elector. Every such nomination shall be accompanied by the consent in writing of the nominee agreeing to serve on the Senate, if elected and must reach the Registrar not later than ten days after the publication of the notification in the Gazette.

**46.** If the number of nominees does not exceed the number of vacancies to be filled, the Vice-Chancellor shall declare such nominees to be elected.

47. If the number of nominees exceeds the number  
 Statute of vacancies to be filled, the Registrar  
 shall forward to each elector a voting  
 paper which shall bear on it the date of posting together  
 with a notice stating the number of vacancies, the date  
 of the election, the hour of the closing of the ballot, and  
 the day and hour of the scrutiny and counting of votes.  
 The date of the election shall be not less than ten days  
 from the date of the posting of the voting papers.

48. The number of nominees for whom each elector  
 may vote may be less but shall not be  
 Statute more than the number of vacancies to  
 be filled, and any voting paper which contains votes for  
 any number of nominees in excess of the number of vacan-  
 cies shall be treated as invalid.

49. The voting papers when filled up shall be re-  
 turned to the Registrar in accordance  
 Statute with the directions thereon given by the  
 Vice-Chancellor to secure the secrecy of the ballot and so  
 as to reach the Registrar not later than the day and hour  
 notified for the closing of the ballot. Every elector shall  
 be at liberty to be present at the scrutiny and counting of  
 votes. In the event of an equality of votes between any  
 two or more nominees the final selection of the nominee  
 to fill the vacancy shall be made by the Vice-Chancellor  
 from among the nominees receiving such equality of votes  
 by drawing lots in such manner as he may determine.

*E.—Two members for each district, one elected by  
 the members of the district board from  
 among themselves and the other by the  
 municipal councillors of the municipali-  
 ties in the district from among them-  
 selves.*

**Elections by Dis-  
 trict Boards and  
 Municipalities**

50. If any vacancy occurs among the members of  
 the Senate elected by the members of a  
 Statute district board or by the municipal coun-  
 cillors of that district, the Registrar, under the directions  
 of the Vice-Chancellor, shall request the Collector of that  
 district to arrange for an election to fill the vacancy. The  
 election shall be conducted in such manner as the Collec-  
 tor may determine.

**Elections by Chambers of Commerce** *F.—(a) Two members elected by the Madras Chamber of Commerce, and two by the Southern India Chamber of Commerce.*

*(b) Two members elected by the Madras Land holders' Association.*

51. In the case of vacancies among the members of of the Senate elected by the Madras Statute Chamber of Commerce or the Southern India Chamber of Commerce or the Madras Landholders' Association, the Registrar, under the direction of the Vice-Chancellor, shall request the Secretary of the body concerned to arrange for an election to fill the vacancies. The elections shall be conducted in such manner as the body concerned may determine.

**Election by donors** *G.—Ten members elected by the donors of sums of not less than Rs. 500 to or for the purposes of the University.*

52. The Registrar shall keep in his office a list showing the names and addresses of all Statute donors of a sum of not less than Rs. 500 to or for the purposes of the University.

Every person whose name is entered in the said list shall be entitled to vote at the election of members of the Senate under section 14, class III (10) of the Act.

53. When the donors of the sum specified above are more persons than one, who constitute Statute a joint family or a partnership firm, or a company, or corporation, the Registrar shall, under the directions of the Vice-Chancellor, call upon such donors to elect, within a time to be fixed by him, one of their members to represent and act for them in voting at the election. If such donors fail to elect and notify the name and address of the person so elected by them, within the time specified in the notice, or within such further period of time as may be allowed by the Registrar, or are unable to agree as to the person who should represent them for the purpose of voting at the election, the Registrar shall lay the matter for orders before the Vice-Chancellor, who may nominate any one of their number to

represent them at the election for the purpose of voting. The orders of the Vice-Chancellor shall be final. The name of the person so elected or nominated to represent such donors, shall be entered in the column of remarks against the names of such donors and for purposes of serving all notices of election, of making nominations of persons to be elected and for voting at the election, the person so noted as the representative of such donors, shall be deemed to be the person entitled to act as one of the electors.

54. Where the donor is a minor, or a person suffering from disability, or a ward of the Court, the legal guardian of such person shall be entitled to act for him at such election as a voter, so long as the minority or disability continues or so long as he is a ward of the Court. Where the same person is not the guardian of the person or property of a minor, the guardian of the property shall be deemed to be guardian within the meaning of this rule.

55. If any vacancy occurs among the members of the Senate elected by registered donors each of a sum of not less than Rs. 500 to or for the purposes of the University, the Registrar, under the directions of the Vice-Chancellor, shall cause a notification of the fact to be published in the Gazette.

56. Each elector shall be at liberty to nominate a qualified person to fill the vacancy. Every nomination shall be made by an elector in writing and seconded by another elector. Every such nomination shall be accompanied by the consent in writing of the nominee agreeing to serve on the Senate, if elected and must reach the Registrar not later than ten days after the publication of the notice in the Gazette.

57. If the number of nominees does not exceed the number of vacancies to be filled the Vice-Chancellor shall declare such nominees to be elected.

58. If the number of nominees exceeds the number of vacancies to be filled, the Registrar shall forward to each elector a voting

paper which shall bear on it the date of posting together with a notice stating the number of vacancies, the date of the election, the hour of the closing of the ballot, and the day and hour of the scrutiny and counting of votes. The date of the election shall be not less than fourteen days from the date of the posting of the voting papers.

59. The number of nominees for whom each elector  
 Statute may vote may be less but shall not be  
 more than the number of vacancies to  
 be filled, and any voting paper which contains votes for  
 any number of nominees in excess of the number of  
 vacancies shall be treated as invalid.

60. Each voting paper shall be signed by the elector,  
 Statute provided that where the voter is a *purda-*  
*nashin* lady or is a person unable to sign  
 his or her name by physical defect or from any other  
 cause, the signature of the former or the seal or mark  
 affixed by the latter shall be attested by any of the per-  
 sons enumerated in Law 19 (2) of this Chapter.

61. The voting papers when filled up shall be re-  
 Statute turned to the Registrar in accordance  
 with the directions thereon given by  
 the Vice-Chancellor to secure the secrecy of the ballot  
 and so as to reach the Registrar not later than the day  
 and hour notified for the closing of the ballot. Every  
 elector shall be at liberty to be present at the scrutiny  
 and counting of votes. In the event of an equality of  
 votes between any two or more nominees the final selec-  
 tion of the nominee to fill the vacancy shall be made by  
 the Vice-Chancellor from among the nominees receiving  
 such equality of votes by drawing lots in such manner as  
 he may determine.

#### THE SYNDICATE.

62. If any vacancy occurs among the members of  
 Statute the Syndicate elected from among them-  
 Elections to selves by the members of the Senate, or  
 Syndicate of the Academic Council, or of the  
 Council of Affiliated Colleges, the Registrar, under  
 the directions of the Vice-Chancellor, shall cause a noti-  
 fication of the fact to be published in the Gazette.

63. Each elector shall be at liberty to nominate a qualified person to fill the vacancy.

Statute Every nomination shall be made by an elector in writing and shall be seconded by another elector. Every such nomination shall be accompanied by the consent in writing of the nominee agreeing to serve on the Syndicate if elected, and must reach the Registrar not later than ten days after the publication of the notice in the Gazette.

64. If the number of nominees does not exceed the number of vacancies to be filled the  
Statute Vice-Chancellor shall declare such nominees to be elected.

65. If the number of nominees exceeds the number of vacancies to be filled, the Registrar  
Statute shall forward to each elector a voting paper which shall bear on it the date of posting together with a notice stating the number of vacancies, the date of the election, the hour of the closing of the ballot, and the day and hour for the scrutiny and counting of votes. The date of the election shall be not less than ten days from the date of the posting of the voting papers.

66. The number of nominees for whom each elector may vote may be less but shall not be  
Statute more than the number of vacancies to be filled, and any voting paper which contains votes for any number of nominees in excess of the number of vacancies shall be treated as invalid.

67. The voting papers when filled up shall be returned to the Registrar in accordance  
Statute with the directions thereon given by the Vice-Chancellor to secure the secrecy of the ballot and so as to reach the Registrar not later than the day and hour notified for the closing of the ballot. Every elector shall be at liberty to be present at the scrutiny and counting of votes. In the event of an equality of votes between any two or more nominees the final selection of the nominee to fill the vacancy shall be made by the Vice-Chancellor from among the nominees receiving such equality of votes by drawing lots in such manner as he may determine.



## THE ACADEMIC COUNCIL.

*A.—Five principals of second-grade colleges elected by the Principals of second-grade colleges.*

**Election by Principals**

68. If any vacancy occurs among the members of the Academic Council elected from among themselves by the Principals of second-grade colleges, the Registrar, under the directions of the Vice-Chancellor, shall cause a notification of the fact to be published in the Gazette.

**Statute**

69. Each elector shall be at liberty to nominate a qualified person to fill the vacancy. Every nomination shall be made by an elector in writing and shall be seconded by another elector. Every such nomination shall be accompanied by the consent in writing of the nominee agreeing to serve on the Academic Council if elected, and must reach the Registrar not later than ten days after the publication of the notice in the Gazette.

**Statute**

70. If the number of nominees does not exceed the number of vacancies to be filled the Vice-Chancellor shall declare such nominees to be elected.

**Statute**

71. If the number of nominees exceeds the number of vacancies to be filled, the Registrar shall forward to each elector a voting paper which shall bear on it the date of posting together with a notice stating the number of vacancies, the date of the election, the hour of the closing of the ballot, and the day and hour of the scrutiny and counting of votes. The date of the election shall be not less than ten days from the date of the posting of the voting papers.

**Statute**

72. The number of nominees for whom each elector may vote may be less but shall not be more than the number of vacancies to be filled, and any voting paper which contains votes for any number of nominees in excess of the number of vacancies shall be treated as invalid.

**Statute**

73. The voting papers when filled up shall be returned to the Registrar in accordance with the directions thereon given by the Vice-Chancellor to secure the secrecy of the ballot and so as to reach the Registrar not later than the day and hour notified for the closing of the ballot. Every elector shall be at liberty to be present at the scrutiny and counting of votes. In the event of an equality of votes between any two or more nominees the final selection of the nominee to fill the vacancy shall be made by the Vice-Chancellor from among the nominees receiving such equality of votes by drawing lots in such manner as he may determine.

*B.—Three members of the teaching staffs of each of the constituent and one member of the teaching staffs of each of the affiliated first-grade and professional colleges.*

74. If any vacancy occurs among the members of the Academic Council elected from among themselves by the staff of a constituent or affiliated first-grade or professional college, the Registrar shall, under the directions of the Vice-Chancellor, call upon the Principal of the college concerned to arrange forthwith for an election to fill the vacancy. The election shall be conducted in such manner as the Principal of the college may determine.

*C.—Five members of the Senate who are not engaged in teaching or members of the Syndicate.*

75. If any vacancy occurs among the members of the Academic Council elected by the Senate from its own body, the Registrar, under the directions of the Vice-Chancellor, shall cause a notification of the fact to be published in the Gazette.

76. Each elector shall be at liberty to nominate a qualified person to fill the vacancy. Every nomination shall be made by an elector in writing and shall be seconded by another elector. Every such nomination shall be accompanied by the consent in writing of the nominee to serve on the Aca-

demic Council if elected, and must reach the Registrar not later than ten days after the publication of the notice in the Gazette.

77. If the number of nominees does not exceed the number of vacancies to be filled, the Statute Vice-Chancellor shall declare such nominees to be elected.

78. If the number of nominees exceeds the number of vacancies to be filled, the Registrar Statute shall forward to each elector a voting paper which shall bear on it the date of posting together with a notice stating the number of vacancies, the date of the election, the hour of the closing of the ballot, and the day and hour of the scrutiny and counting of votes. The date of the election shall be not less than ten days from the date of the posting of the voting papers.

79. The number of nominees for whom each elector may vote may be less but shall not be Statute more than the number of vacancies to be filled, and any voting paper which contains votes for any number of nominees in excess of the number of vacancies shall be treated as invalid.

80. The voting papers when filled up shall be returned to the Registrar in accordance with the Statute directions thereon given by the Vice-Chancellor to secure the secrecy of the ballot and so as to reach the Registrar not later than the day and hour notified for the closing of the ballot. Every elector shall be at liberty to be present at the scrutiny and counting of votes. In the event of an equality of votes between any two or more nominees, the final selection of the nominee to fill the vacancy shall be made by the Vice-Chancellor from among the nominees receiving such equality of votes by drawing lots in such manner as he may determine.

#### THE COUNCIL OF AFFILIATED COLLEGES.

Election by  
Principals

*A.—Five Principals of second-grade colleges elected by the Principals of such colleges.*

81. If any vacancy occurs among the members of the Council of Affiliated Colleges elected from among themselves by the Principals of second-grade colleges, the Registrar, under the directions of the Vice-Chancellor, shall cause a notification of the fact to be published in the Gazette.

Statute

82. Each elector shall be at liberty to nominate a qualified person to fill the vacancy.

Statute

Every nomination shall be made by an elector in writing and shall be seconded by another elector. Every such nomination shall be accompanied by the consent in writing of the nominee to serve on the Council of Affiliated Colleges if elected, and must reach the Registrar not later than ten days after the publication of the notice in the Gazette.

83. If the number of nominees does not exceed the number of vacancies to be filled, the Vice-Chancellor shall declare such nominees to be elected.

Statute

84. If the number of nominees exceeds the number of vacancies to be filled, the Registrar shall forward to each elector a voting paper which shall bear on it the date of posting together with a notice stating the number of vacancies, the date of the election, the hour of the closing of the ballot, and the day and hour of the scrutiny and counting of votes. The date of the election shall be not less than ten days from the date of the posting of the voting papers.

Statute

85. The number of nominees for whom each elector may vote may be less but shall not be more than the number of vacancies to be filled, and any voting paper which contains votes for any number of nominees in excess of the number of vacancies shall be treated as invalid.

Statute

86. The voting papers, when filled up, shall be returned to the Registrar in accordance with the directions thereon given by the Vice-Chancellor to secure the secrecy of the ballot and so as to reach the Registrar not later than the day and hour notified for the closing of the ballot. Every elector shall be at liberty to be present at the scrutiny and counting

Statute

of votes. In the event of an equality of votes between any two or more nominees, the final selection of the nominee to fill the vacancy shall be made by the Vice-Chancellor from among the nominees receiving such equality of votes by drawing lots in such manner as he may determine.

**Election by District Boards and Municipalities** *B.—One member for each district elected by the members of the district board and of the municipalities of that district.*

87. If any vacancy occurs among the members of the Council of Affiliated Colleges elected by the members of a district board and of the municipalities of that district, the Registrar, under the directions of the Vice-Chancellor, shall request the Collector of that district to arrange for an election to fill the vacancy. The election shall be conducted in such manner as the Collector may determine.

**Election by Teaching staff** *C.—One representative for each affiliated first-grade college elected by the teachers of such college.*

88. If any vacancy occurs among the members of the Council of Affiliated Colleges elected by the teachers of affiliated first-grade colleges, the Registrar, under the directions of the Vice-Chancellor, shall call upon the Principal of the college concerned to arrange forthwith for an election to fill the vacancy. The election shall be conducted in such manner as the Principal may determine.

## CHAPTER VII.

### THE SENATE.

#### *Composition of the Senate.*

**Act . Composition of the Senate** 1. The Senate shall consist of the following persons, namely:—

#### *Class I—Ex-officio Members.*

- (1) The Chancellor,
- (2) the Pro-Chancellor,

- 
- (3) the Vice-Chancellor,
  - (4) the Director of Public Instruction, Madras,
  - (5) the Surgeon-General with the Government of Madras
  - (6) the Chief Engineer, Public Works Department,
  - (7) the Advocate-General,
  - (8) the Director of Industries,
  - (9) the Director of Agriculture,
  - (10) the Principals of first-grade colleges,
  - (11) the Principals of constituent colleges other than Arts colleges,
  - (12) the whole-time University Professors paid from University funds, and
  - (13) members of the Syndicate who are not otherwise members of the Senate.

*Class II—Life-Members.*

Such persons not exceeding five as may be appointed by the Chancellor to be life members on the ground that they have rendered eminent services to education.

All persons who make a donation of not less than Rs. 25,000 to or for the purposes of the University.

*Class III—Other Members.*

(1) Thirty members elected by registered graduates from among themselves according to the principle of proportionate representation by means of the single transferable vote;

(2) ten members elected by the Academic Council and ten members elected by the Council of Affiliated Colleges;

(3) twelve members elected by the non-official members of the Legislative Council of Madras from among their own body;

(4) five persons elected by the principals of second-grade colleges and three persons elected by head-masters of secondary schools recognized by the Local Government;

(5) four members elected by the Corporation of Madras from among their own body;

(6) two members for each district, one elected by the members of the district board from among themselves, and the other by the municipal councillors of the municipalities in the district from among themselves;

(7) two members elected by the Madras Chamber of Commerce and two by the Southern India Chamber of Commerce;

(8) two members elected by the Madras Landholders' Association;

(9) every association making a donation of not less than Rs. 25,000 and every person making a donation of not less than Rs. 10,000 and every association or person making an annual contribution of not less than Rs. 5,000 to or for the purposes of the University shall be entitled to nominate one member to the Senate who shall be a member for five years or as long as the annual contribution continues, as the case may be;

(10) associations or persons being donors of sums of not less than Rs. 500 to or for the purposes of the University shall elect such number of members not exceeding ten as the Chancellor may fix;

(11) thirty members nominated by the Chancellor of whom not less than twenty shall be nominated to secure the representation of communities not otherwise adequately represented;

(12) one member to represent each of the chief vernacular languages in the Presidency, such member being chosen either by nomination or by election in such manner as may be prescribed.

Save as otherwise provided, members of the Senate other than *ex-officio* members shall hold office for a period of three years; provided, however, that a member nominated or elected in his capacity as a member of a particular body or as the holder of a particular appointment shall hold office so long only within that period as he continues to be a member of that body or the holder of that appointment as the case may be.

Statute <b>Election to the Senate</b>	<b>2. The elections to the Senate shall be conducted in accordance with Chapter VI of these Laws.</b>
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*Powers of the Senate.*

Act <b>The Senate to be the supreme gov- erning body</b>	<b>3. The Senate shall be the supreme governing body of the University and shall have the power to review the action of the Syndicate, the Academic Council and the Council of Affiliated Colleges and shall exercise all the powers of the University not otherwise provided for and all powers requisite to give effect to the provisions of the Act.</b>
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Act <b>Powers of the Senate</b>	<b>4. The Senate shall have the following powers, namely:—</b>
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(1) to provide for instruction in such branches of learning as it may think fit and to make provision for research and for the advancement and dissemination of knowledge;

(2) to encourage co-operation and reciprocity among the constituent and affiliated colleges with a view to promoting academic life;

(3) to make such provision as will enable constituent colleges to undertake specialization of studies and to organise common laboratories, libraries and other equipment for research work;

(4) to institute professorships, readerships, lectureships and any other teaching posts required by the University and to appoint persons to such professorships, readerships, lectureships and posts;

(5) to institute and award fellowships, travelling fellowships, scholarships, endowments, exhibitions, bursaries, medals and prizes;

(6) to grant to, and confer degrees and other academic distinctions on, persons who—

(a) shall have passed the prescribed examinations of the University, after having pursued an



approved course of study in a constituent or an affiliated college, or having been exempted therefrom under Section 36 (2) of the Act, or

(b) shall have carried on research under conditions prescribed;

(7) to confer honorary degrees or other distinctions on approved persons in the manner prescribed;

(8) to provide such lectures and instruction for students of affiliated colleges of the University as the University may determine and also to provide for lectures and instruction to persons not being students of the University and to grant diplomas to them;

(9) to affiliate to itself colleges outside the limits of the University and to allow colleges affiliated to the University before the passing of the Act to continue to exercise the rights and privileges conferred on them by the affiliation and any further rights to be conferred by the Act until such time as they may be transferred to other Universities;

(10) to provide for the inspection of all colleges and hostels;

(11) to institute, maintain and manage constituent colleges, and to recognize colleges not maintained by the University as constituent colleges;

(12) to suspend or withdraw the recognition of a constituent college or the affiliation of an affiliated college on the recommendation of the Syndicate made after giving an opportunity to the management of such college of making such representations as it may deem fit, and in the case of an affiliated college, after considering any report of the Council of Affiliated Colleges on the matter;

(13) to make recommendations to the Local Government for the recognition of local areas as 'University centres';

(14) to institute, maintain, and manage hostels, to recognise hostels not maintained by the University and to withdraw recognition therefrom;

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(15) to supervise and control the residence and discipline of the students of the University and to make arrangements for promoting their health and general welfare;

(16) to fix, demand and receive such fees as may be prescribed;

(17) to enter into any agreement with the Government or with a private management for assuming the management of any institution under it and for taking over its properties and liabilities and for any other purpose not repugnant to the provisions of the Act;

(18) to report to the Local Government at the end of every five years from the passing of the Act on the condition of affiliated colleges and on the desirability or otherwise of establishing other Universities outside the limits of the University;

(19) to co-operate with other Universities and authorities in such manner and for such purposes as the University may determine;

(20) to make Statutes and amend or repeal the same;

(21) to consider, modify or cancel Ordinances and Regulations;

(22) to consider and pass resolutions on the annual report, the annual accounts and the financial estimates;

(23) to make Statutes regulating the method of election to the authorities of the University and the procedure at the meeting of the Senate, Syndicate and other authorities of the University and the quorum of members required for the transaction of business by them;

(24) to create as prescribed by the Laws an Affiliated College Fund and make rules for its management.

(25) to delegate any of its powers to such authority or authorities as it may deem fit; and

(26) generally to do all such other acts and things as may be necessary or desirable to further the objects of the University.

Nothing in the Act contained shall entitle the Senate to affiliate to the University any college situate within the limits of the University.

*Meetings and Proceedings.*

5. There shall be two ordinary meetings of the Senate in the year on dates to be fixed by the Vice-Chancellor. One of them shall be the annual meeting at which the Report and the financial estimates shall be presented. The Senate may also meet at such other times as it may from time to time determine.

Act and Statute  
Meetings of the Senate

6. (1) The Vice-Chancellor may, whenever he thinks fit, and shall, upon a requisition in writing signed by not less than 35 members of the Senate, convene a special meeting of the Senate.

Act  
Special Meeting of the Senate

(2) Any requisition for a special meeting must be in writing signed by the requisitionists, and must be forwarded to the Registrar with a copy of the resolution or resolutions to be moved at the meeting and also the name of the proposer of each resolution.

Statute  
Requisition for a special meeting

7. The Registrar shall under the directions of the Vice-Chancellor give not less than six weeks notice of the date of an ordinary meeting. The Registrar shall, with the notice of meeting, also send to each member, copies of the Annual Report of the Syndicate and of the Financial Estimates mentioned under section 20 and 21-(3) of the Act.

Statute  
Notice of meetings

8. Any member who wishes to move a resolution at an ordinary meeting shall forward a copy of the resolution to the Registrar so as to reach him not less than 30 clear days before the date of the meeting.

Statute  
Date for forwarding resolutions

9. The Syndicate shall cause each resolution of which notice has been given in accordance with Law 8 of this Chapter to be placed in the agenda paper of the meeting at which it is to be moved.

Statute  
Resolutions to  
be placed on agenda paper

10. Not less than twenty-one days before the date of an ordinary meeting and not less than fifteen days before the date of a special meeting, the Registrar shall issue to every member an agenda paper specifying the day and the hour of the meeting and the business to be brought before the meeting, but the non-receipt of the agenda paper by any member shall not invalidate the proceedings of the meeting; provided that the Syndicate may bring any business which in its opinion is urgent before any ordinary or special meeting with shorter notice or without placing the same on the agenda paper.

Statute  
Agenda paper

11. Any member wishing to move an amendment to a resolution on the agenda paper of any ordinary or special meeting of the Senate shall forward a copy of the same to the Registrar so as to reach him not less than nine clear days before the day of the meeting at which the resolution is to be moved.

Statute  
Notice of amendments

12. The Registrar shall, on the receipt of amendments given in accordance with Law 11 of this Chapter, prepare an amended agenda paper showing all the resolutions as in the original agenda paper and all the amendments, and shall post a copy of it to each member of the Senate not less than five days before the date of any meeting.

Statute  
Amended agenda paper

13. The Vice-Chancellor shall, in the absence of the Chancellor or the Pro-Chancellor, preside at all meetings of the Senate, but if the Vice-Chancellor be not present, the members present shall elect a Chairman from among themselves.

Act  
Chairman of meeting

14. Thirty-five members of the Senate shall be the quorum for a meeting of the Senate.  
 Act If a quorum is not present within  
 Quorum fifteen minutes after the time appointed for a meeting, the meeting shall not be held, and the Registrar shall make a record of the fact.

15. If at any time during the progress of a meeting any member shall call attention to the number of members present, the Statute  
 No quorum Chairman shall within a reasonable time count the number of the members present, and, if a quorum be not present, he shall declare the meeting dissolved and shall leave the chair. All such dissolution shall be recorded by the Registrar and the record shall be signed by the Chairman.

16. The Chairman shall, if so directed by a meeting at which a quorum is present, adjourn the meeting from time to time Statute  
 Adjournments and from place to place; but, subject to the provisions of other Laws, no business shall be transacted at any adjourned meeting other than the business left unfinished at the meeting from which the adjournment took place. When a meeting is adjourned for fifteen days or more, not less than ten days' notice of the adjourned meeting and of the business to be transacted at it shall be given. Save as aforesaid it shall not be necessary to give any notice of an adjournment or of the business to be transacted at an adjourned meeting.

### *Business of Meeting.*

17. At every meeting of the Senate the following shall be the order of business, after the election, if it be necessary, of the Chairman:—  
 Statute  
 Order of Business

- (i) The answering of questions, if any.
- (ii) Any motion for a change in the order of business as stated in the agenda paper.
- (iii) Business brought forward by the Syndicate.

(iv) Business brought forward by the Academic Council.

(v) Business brought forward by the Council of Affiliated Colleges.

(vi) Business brought forward by members of the Senate.

18. At an Ordinary Meeting of the Senate any member may ask any question for the purpose of obtaining information on any matter concerning the University, within the special cognisance of the Senate.

Statute  
Question

19. No question shall be admitted, unless it complies with the following conditions:—

(a) it must not publish any name or statement not strictly necessary to make the question intelligible,

(b) if a question contains a statement, the member asking it must make himself responsible for the accuracy of the statement,

(c) it must not contain arguments, inferences, ironical expressions or defamatory statements,

(d) it must not ask for an expression of opinion or the solution of an abstract legal question or of a hypothetical proposition,

(e) it must not be asked as to the character or conduct of any person, except in his official capacity, as connected with the University, and

(f) it must not be of excessive length.

20. Any member who intends to ask a question shall forward to the Registrar a notice in writing to that effect, together with a copy of the question to be asked, so as to reach him not less than thirty clear days before the date of an ordinary meeting.

21. The Syndicate shall decide on the admissibility of a question and shall disallow any question which, in its opinion, contravenes the provision of these Laws.

22. The Syndicate may disallow a question on the ground that it cannot be answered consistently with the interests of the University.

23. The decision of the Syndicate shall be final and no discussion thereon shall be permitted at any meeting of the Senate.

24. Questions which have been admitted and the Statute answers thereto shall be printed and Answer to Questions circulated to the members of the Senate along with the amended agenda.

25. The Chairman shall call out the name of each questioner in the order in which the names are printed, specifying the serial number of his question, and make a sufficient pause to give him or any other member a reasonable opportunity of rising in his place, and putting a supplementary question. Supplementary questions must be put immediately after the principal question to which they relate.

26. Any member may put a supplementary question for the purpose of further elucidating any matter of fact, regarding which an answer has been given, provided that the Chairman shall disallow any supplementary question, if, in his opinion, it infringes the Laws. The decision of the Chairman shall be final and no discussion thereon shall be permitted at any meeting of the Senate.

27. The Chairman may decline to answer a supplementary question without notice, in which case the supplementary question may be put by the questioner only in the form of a fresh question at a subsequent ordinary meeting of the Senate.

28. No discussion shall be permitted in respect of any question or of any answer given to a question.

*Motions and Amendments without Notice.*

Statute  
**Amendments to  
resolutions with  
short notice**

29. Any member may, without previous notice, move any amendment to any resolution brought forward by the Syndicate under the proviso contained in Law 10 of this Chapter.

Statute  
**Motions without  
previous notice**

30. At any meeting of the Senate the following resolutions may be moved without previous notice:—

(i) A motion for a change in the order of business as stated in the agenda paper.

(ii) A motion for the adjournment of the meeting or debate.

(iii) A motion that the meeting pass to the next business on the agenda paper.

(iv) A motion that the meeting be dissolved.

(v) A motion that the question be now put.

(vi) A motion directing the Syndicate, the Academic Council or the Council of Affiliated Colleges to review its decision or recommendation and to report at a subsequent meeting of the Senate.

(vii) A motion for the appointment of a Committee to inquire into and report on any matter before the Senate at the time.

(viii) A motion remitting any matter before the Senate at the time to the Syndicate or to the Academic Council or to the Council of Affiliated Colleges for its views or recommendations and report.

Statute  
**Amendments  
without previous  
notice**

31. At any meeting of the Senate the following amendments may be moved without previous notice:—

(i) Amendments of a purely verbal or formal kind which, in the opinion of the Chairman, do not affect the sense or import of the motion to which they refer.

(ii) Amendments to any resolution or amendment on the agenda paper which, in the opinion of the Chairman,



have been rendered necessary by, and are consequential upon, any motion passed by the Senate at the same meeting.

(iii) Amendments to a motion for a change in the order of business as stated in the agenda paper, substituting an order different from that in the motion.

(iv) Amendments to a motion for an adjournment of the meeting or debate, substituting a time different from that in the motion.

(v) Amendments to a motion directing the Syndicate, the Academic Council or the Council of Affiliated Colleges to review or reconsider its decision or recommendation.

(vi) Amendments to a motion for the appointment of a Committee, whether for enlarging or restricting its purposes or the questions remitted to it, or for adding to or omitting the names of members proposed to form it.

(vii) Amendments to a motion remitting any matter to the Syndicate or to the Academic Council.

<p>Statute Resolutions or amendments not on agenda paper. the meeting.</p>	<p>32. Save as permitted in Laws 29, 30 and 31 of this Chapter no resolution or amendment which is not placed on the agenda paper shall be moved at</p>
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### *Procedure on Motions*

<p>33. Any motion made under Law 30 (ii), (iii), (iv), (v) of this Chapter shall take precedence of any question that may be before the meeting, and if not withdrawn, must be disposed of before such question.</p>	<p>Statute Precedence of motions</p>
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<p>34. When any motion under Law 30 (ii), (iii), (iv), (v) of this Chapter has been brought forward and has been negatived, no other motion of the same kind shall be again brought forward until after the</p>	<p>Statute Motions nega- tived</p>
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lapse of what the Chairman shall deem a reasonable time; nor shall any debate or discussion be allowed on such second or subsequent motion brought forward during a debate on the same question.

35. No motion under Law 30 (ii), (iii), (iv), (v) of this Chapter shall be made or seconded by any member who, during the discussion of any particular item of business, has already made or seconded any one of such motions.

Statute  
Proposing or seconding motions under Law 30

36. A motion substantially identical with one already moved and decided upon at a meeting shall not be moved at the same or at any adjourned meeting; a motion substantially identical in part only with one already moved at a meeting may be moved at the same or any adjourned meeting with the omission of such part.

Statute  
Identical motions

37. A motion for the adjournment of a meeting shall be in the form 'That this meeting do now adjourn to', followed by words indicating the day and hour proposed for the adjourned meeting. A motion for the adjournment of a debate shall be in the form 'That the debate on this question be now adjourned to' followed by words indicating the day and hour.

Statute  
Motion for adjournment, form of

38. A motion for the adjournment of a meeting or of a debate on any particular question may be made at any time but shall not be made so as to interrupt a speech. If a motion for the adjournment of the debate be carried, the debate shall be adjourned to the time specified in the motion. The meeting shall pass to the next business, if any, on the agenda paper. If either of such motions be negatived the business of the meeting or the debate as the case may be shall be resumed.

Statute

39. A motion to pass to the next business shall be in the form 'That the meeting do now pass to the next business on the agenda paper' and may be moved at any time, but not so as to interrupt a speech. If the motion be carried, the motion under discussion together with any amendments to it shall drop.

40. A motion for the dissolution of a meeting shall be in the form 'That this meeting do now dissolve', and may be made at any time but not so as to interrupt a speech. If such a motion be carried, the business still before the meeting shall drop, and the Chairman shall declare the meeting dissolved.

41. (1) In any debate a member may move 'that the question be now put, and unless it shall appear to the Chairman that such motion is an infringement of the rights of reasonable debate, the motion 'that the question be now put' shall be put to the vote forthwith and decided without amendment or debate.

(2) When the motion 'that the question be now put' has been carried the question or the motion, the debate on which has thus been terminated, shall be put and decided without amendment or further debate.

42. A motion directing the Syndicate, the Academic Council or the Council of Affiliated Colleges to review or reconsider its decision or recommendation may be made at any time during the discussion on any such decision or recommendation, but shall not be made so as to interrupt a speech. The motion shall specify the matter proposed to be referred to the Syndicate, the Academic Council or the Council of Affiliated Colleges for review or reconsideration and may also indicate generally the sense or direction in which the mover desires alteration in such decision or recommendation. The motion may also include instruction that the Syndicate, the Academic Council or

the Council of Affiliated Colleges shall report to the Senate by a specified date.

43. A motion for the appointment of a Committee to consider any question before the Senate at the time shall state the purpose for which the committee is to be constituted and the names of its members and convener.
- Statute  
Motion for ap-  
pointment of a  
Committee

*Procedure on Amendments.*

44. Amendments to a resolution shall be—
- Statute  
Amendments,  
nature of

- (i) by leaving out a word or words,
- (ii) by leaving out a word or words in order to insert some other word or words, and
- (iii) by adding or inserting a word or words.

45. When the amendment is of the first kind, the form in which it is proposed shall be 'That the words (mentioning them) be left out of the resolution.' When the amendment is of the second kind, the form shall be 'That the words (mentioning them) be left out of the resolution and that the words (mentioning them) be added or inserted.' When the amendment is of the third kind, the form shall be 'That the words (mentioning them) be added or inserted' and there shall then follow words specifying the place in which the words mentioned are to be added or inserted.
- Statute  
Amendments,  
form of

46. No amendment shall be proposed which would reduce a resolution to its negative or opposite form.
- Statute  
Amendments,  
negative

47. Every amendment must be relevant to the resolution to which it refers and must be framed so as to form therewith an intelligible and consistent sentence,
- Statute  
Amendments to  
be relevant and  
intelligible

Statute  
**Motion for adjournment, amendment to**

48. No amendment shall be moved to a motion for adjournment of meeting or debate except one substituting a different day or hour.

Statute  
**Amendments, orders of**

49. The order in which amendments to a resolution are to be brought forward shall be determined by the Chairman.

*Resolutions, Amendments and Motions in General.*

50. Every motion at a meeting must be seconded otherwise it shall drop. Any member may second a motion by saying 'I second the motion' and may reserve his speech. When a motion has been made and seconded, it shall be stated from the chair, unless it be ruled out of order by the Chairman.

Statute  
**Motion to be seconded and stated**

Statute  
**Amendments, number of**

51. Not more than one resolution and one amendment thereto shall be placed before a meeting at the same time.

Statute  
**Motions not moved**

52. Any resolution or amendment standing in the name of a member who is absent from the meeting, or who declines to move it, may be moved by any other member.

Statute  
**Withdrawal of motions**

53. No resolution or amendment shall be withdrawn from the decision of the meeting without its unanimous consent; but this consent shall be presumed if the mover state his wish to withdraw the resolution or amendment and the Chairman, after an interval during which no dissent is expressed, announce that it is withdrawn,

**Statute**  
**Speeches, dura-**  
**tion of**

54. No speech shall ordinarily exceed ten minutes in duration, provided that the mover of a resolution or of an amendment, when moving the same, may speak for twenty minutes.

**Statute**  
**Speeches, order**  
**of**

The member who first rises to speak at the conclusion of a speech has the right to be heard. In cases of competition, the Chairman shall decide who is in possession of the meeting.

**Statute**  
**Speaking more**  
**than once**

55. Except as hereinafter provided, a member having spoken to a motion is not at liberty to speak again to such motion.

**Statute**  
**Speeches by**  
**Chairman**

56. The Chairman has the same right of moving or seconding or speaking to a resolution or amendment as any other member, but he shall vacate the chair while so engaged, and the chair shall during such time be taken by a member nominated by the Chairman. Without leaving the chair, the Chairman may, however, at his discretion or at the request of any member, explain to the meeting the scope of any resolution or amendment.

**Statute**  
**Personal expla-**  
**nations**

57. Any member may, even whilst another is speaking, rise to explain any misconception of expressions used by him, but he shall confine himself strictly to such explanation.

**Statute**  
**Points of order**

58. Any member may call the Chairman's attention to a point of order even whilst another member is speaking, but no speech shall be made on such point of order.

**Statute**  
**Calling to order**

59. The Chairman shall be the sole judge on any point of order, and may call any member to order, and shall have power to take such action as may be necessary to enforce his decision.

60. When the Chairman has ascertained that no other member entitled to address the meeting desires to speak, the mover of the resolution may reply upon the whole debate, provided that the mover of a resolution of the kind specified in clauses (i), (ii), (iii), (iv) and (v) of Law 30 of this Chapter shall have no right of reply. No member shall speak to a question after the mover has entered on his reply.

61. When the debate on a resolution is concluded or if there be no debate, the Chairman shall put the question to the vote by saying, 'The question is,' followed by the words of the resolution and the Senate shall then divide unless the Chairman ascertain that the question is carried affirmatively by an unanimous vote. If there be an amendment, he shall say, 'It has been moved,' followed by the words of the resolution: then he shall say, 'Since it has been moved by way of amendment,' followed by the words of the amendment: and then, if the amendment be one of the kind specified in clause (i) of law 44 of this Chapter he shall put the question by saying, 'Shall the words or word proposed to be left out be left out?' If the amendment be of the kind specified in clause (ii) of the same law, he shall put the question by saying, 'Shall the following words or word.....be left out in order to add or insert the following words or word.....?' If the amendment be of the kind specified in clause (iii) of the same law he shall put the question by saying, 'Shall these words be there added or inserted?' If an amendment be negatived the original resolution shall be again stated from the chair, and any other amendments, if any, thereto may then be moved. If an amendment be carried, the resolution as amended shall be stated from the chair, and may then be debated as a substantive resolution to which the further amendments, if any, to the original resolution may be moved, and such further amendments shall be disposed of in the same manner as the previous amendment.

### *Voting.*

62. All questions considered at meetings of the Senate shall be decided by a majority of the votes of the members present unless a particular majority is required by the Laws of the University. If the votes, including that of the Chairman, be equally divided, the Chairman shall have a casting vote.

Statute  
Decision of  
questions

63. On any motion being put to the vote, the Senate shall divide. The manner in which a division shall be effected shall be left to the discretion and direction of the Chairman. The vote of each member voting shall be recorded if any member present desires that this shall be done. In that case the names of members who abstained from voting shall also be recorded.

Statute  
Poll

### *Minutes.*

64. The minutes of all proceedings of each meeting of the Senate shall be signed by the Chairman of the meeting. The Registrar within five weeks after a meeting shall send a printed copy of the minutes of that meeting so signed by the Chairman to each member of the Senate.

Statute  
Minutes of  
Meetings

If no exception is taken by any member who was present at the meeting to the correctness of the minutes within ten days of the sending of the minutes, they shall be deemed to be correct.

If such exception be taken within the time aforesaid the minutes shall be brought forward by the Syndicate at the next meeting of the Senate for confirmation or correction by such of the members as were present when the business was transacted to which the minutes refer.

### *Protests.*

65. Any member intending to protest against a motion passed at a meeting of the Senate, to which the assent of the

Statute.  
Protests



Chancellor is required, shall give notice in writing of his intention to the Registrar within forty-eight hours from the date of the meeting, and within fourteen days from such date shall lodge his protest with the Registrar. The Registrar shall forward a copy of the protest to the mover of the motion. The mover of the motion may, within fourteen days from the receipt of the protest prepare and send to the Syndicate a memorandum in support of the decision of the Senate. The Syndicate shall submit the protest and memorandum (if any), together with a copy of the motion for the consideration and orders of the Chancellor.

## CHAPTER VIII.

### THE SYNDICATE

#### *Constitution.*

Act of  
Composition of  
the Syndicate

1. The Syndicate shall, in addition to the Vice-Chancellor, consist of the following persons, namely—

#### *Class I.—Ex-Officio Member.*

The Director of Public Instruction, Madras.

#### *Class II—Other Members.*

(1) Eight members elected by the Senate from among its members.

(2) Three members elected by the Academic Council from among its members.

(3) Three members elected by the Council of Affiliated Colleges from among its members.

(4) Three members nominated by the Chancellor.

Members other than ex-officio members shall hold office for a period of three years, provided that a member nominated or elected in his capacity as a member of a particular body shall hold office so long only within that period, as he continues to be a member of that body.

**Statute Elections**      2. The elections to the Syndicate shall be conducted in accordance with the Laws laid down in Chapter VI.

*Powers and Duties.*

3. The Syndicate—

**Act Powers and duties**      (1) shall hold, control and administer the property and funds of the University;

**Act**      (2) shall direct the form, custody and use of the common seal of the University;

**Act**      (3) shall regulate and determine all matters concerning the University in accordance with the Act, the Statutes and the Ordinances, provided that no action shall be taken by the Syndicate in respect of fees payable to examiners and the number, qualifications and the emoluments of teachers of the University, otherwise than after consideration of the recommendations of the Academic Council;

**Statute**      (4) shall correspond on the business of the University with the Government and with all other authorities and persons.

**Act**      (5) shall prepare the Annual Report of the University and submit the same to the Senate;

**Act**      (6) shall frame the financial estimates of the University and submit the same to the Senate;

**Act**      (7) shall administer all funds placed at the disposal of the University for specific purposes;

**Statute II (c) in Schedule I**      (8) shall have the power to provide or purchase lands, building, premises, furniture, laboratory, apparatus, equipment and other means needed for carrying on the work of the University;

(9) shall have the power to invest any moneys belonging to the University including any unapplied income in any of the securities described in Section 20 of the Indian Trusts Act, 1882, with the power to vary such investments or to place on fixed deposit in any bank approved in this behalf by the Local Government, any portion of such moneys not required for current expenditure;

Statute II (d) in  
Schedule I

(10) shall have the power to institute, with the approval and sanction of the Senate, such professorships, readerships, lecturerships or other teaching posts as may be proposed by the Academic Council;

Statute II (a) in  
Schedule I

(11) shall have the power, subject to the approval of the Senate, to abolish or suspend after report from the Academic Council thereon any professorship, readership, lecturership, or other teaching post;

Statute II (b) in  
Schedule I

(12) shall, save as otherwise provided by the Act or the Statutes, appoint the teachers of the University and servants, shall fix their emoluments and may define their duties and the conditions of their service and may provide for the filling of temporary vacancies;

Act

(13) shall have power to accept bequests, donations and transfers of any movable or immovable properties to the University on its behalf, provided that all such bequests, donations and transfers shall be reported to the Senate at its next meeting;

Act

(14) shall have power to fix the clerical and menial establishments and the scales of salaries and allowances payable to them and, except in cases specially determined by the Laws, to grant leave and to sanction the payment of leave allowances, compassionate allowances, gratuities and pensions

Statute

and the commutation of pensions, in accordance with the provisions of the Civil Service Regulations and the Fundamental Rules, provided that in the case of the menial establishment payment of pensions and gratuities will be regulated by the rules already framed by the Syndicate;

(15) shall have power to fix, determine and award travelling expenses and allowances to persons lawfully engaged or employed in University business;

Statute

(16) shall, subject to the provisions of the Laws, have the power to recognize, institute, maintain and manage constituent colleges and hostels, to grant the rights of affiliation to colleges outside the limits of the University, and to recommend to the Senate the suspension or withdrawal of such recognition or affiliation;

Statute

(17) shall have power to recognize as teachers persons giving instruction in constituent or affiliated colleges or hostels and to withdraw such recognition;

Statute

(18) shall arrange for and direct the inspection of all constituent colleges, hostels and affiliated colleges;

Act

(19) shall appoint examiners after consideration of the recommendations, if any, of the Academic Council and the Council of Affiliated Colleges, and have power to cancel any such appointment and subject to the provisions of the Act to define their duties and to fix their remuneration, travelling expenses and other allowances;

Act and Statute

(20) shall make due arrangements for examinations being conducted in accordance with the laws of the University, and for the supervision of such examinations and fix the remuneration of superintendents;

Act and Statute

(21) shall publish the results on the University examinations;

Act

(22) shall have the power, subject to the provisions in the laws, to dispense with a strict compliance with the laws of the University with reference to the time, place and manner of examinations, or to the time and manner of conducting any election; and also to allow such departure from a strict compliance with the laws as circumstances may demand as to the duration of courses of Ordinary University Lectures, hours of transaction of business in the office of the Registrar, and in respect of dates, for payment of examination fees, for submission of applications for examinations and of attendance certificates, of applications for certificates of having passed any examination and of applications for Convocation; provided that any resolution of the Syndicate passed in reference to such departure from prescribed procedure shall be reported to the Senate at its next meeting, together with a full statement of the special grounds upon which the Syndicate acted;

(23) shall have the power on the recommendation of the Academic Council to exempt by a special order and on such conditions as the Syndicate may think fit a candidate for a University Examination from being an enrolled member of a constituent college or of an affiliated college;

(24) shall have the power subject to the provisions in the laws to appoint, fine, suspend, or dismiss any servant of the University;

(25) shall have the power subject to the provisions in the laws to take cognizance of any misconduct by any student in a college or hostel connected with a college or colleges, or by any candidate for Matriculation or for any University Examination or for a degree, diploma, license, title or mark of honour, brought to the notice of the Syndicate by a Director of Public Instruction or Chief Educational Officer of a Province or by the responsible authorities of the college or hostel or school concerned or in the case of a State College in an Indian State by the Chief Educational Officer of the State, or in any case by a member of any one of the University authorities or the Registrar of the Uni-

versity or by a Chairman of a Board of Examiners, or a Chief Superintendent at any centre of examination and to punish such misconduct at any time by exclusion from any University Examination, or from any Convocation for the purpose of conferring degrees, either permanently or for a specified period, or by cancelling any University Examination or by deprivation of any University Scholarship or Endowment held by such person or by each;

(26) shall have the power to refer any matter to  
 Statute the Academic Council, the Council of  
 Affiliated Colleges, a Faculty or a  
 Board of Studies, and to call for a report thereon.

(27) shall have the power to draft such statutes  
 Act and ordinances as may from time to  
 time be necessary and to submit them to  
 the Senate in accordance with the Laws;

(28) shall have the power, subject to the provisions  
 Statute in the laws, to appoint its own com-  
 mittees and to make its own standing  
 orders and, subject to the laws of the University, to regu-  
 late the disposal of its own business;

(29) shall exercise such other powers and perform  
 Act such other duties as may be conferred  
 or imposed on it by the Act, the Statutes  
 or the Ordinances;

4. The annual report of the University shall be pre-  
 pared by the Syndicate and shall be sub-  
 mitted to the Senate on or before such  
 Act date as may be prescribed by the Sta-  
 Annual Report tutes and shall be considered by the Senate at its next  
 annual meeting. The Senate may pass resolutions there-  
 on and communicate the same to the Syndicate which  
 shall take action in accordance therewith. The Syndi-  
 cate shall inform the Senate of the action taken by it.  
 A copy of the report with a copy of the resolutions there-  
 on, if any, of the Senate shall be submitted to the Local  
 Government for information.

5. The Syndicate may, either of its own motion or on the recommendation of the Academic Council, make proposals to the Senate for the conferment of honorary degrees and shall, after the Senate assents thereto submit such proposals to the Chancellor for confirmation: provided that in case of urgency the Chancellor may act on the recommendation of the Syndicate only.

Statute VI of  
Schedule I  
Honorary  
Degrees

Act  
Annual  
Accounts

6. The annual accounts and the financial estimates of the University shall be prepared by the Syndicate and shall be dealt with in accordance with the laws laid down in Chapter XIV.

## CHAPTER IX.

### THE ACADEMIC COUNCIL.

#### *Constitution.*

Act  
Composition of  
the Academic  
Council

1. (i) The members of the Academic Council, in addition to the Vice-Chancellor, shall be—

#### *Class I—Ex-Officio Members.*

- (1) The Director of Public Instruction, Madras.
- (2) The University Professors.
- (3) The Principals of first-grade colleges.
- (4) The Principals of professional colleges.
- (5) Any member of the teaching staff of any college who may be appointed or recognized as a University Reader during his tenure of office.

#### *Class II—Other Members.*

- (1) Five Principals of second-grade colleges elected by the Principals of second-grade colleges.
- (2) Three members of the teaching staff of each of the constituent colleges to be elected by the members of the staff of the respective colleges.

(3) Five members elected by the Senate from its own body who are not engaged in teaching or members of the Syndicate.

(4) One member of the teaching staff of each of the affiliated first-grade and professional colleges to be elected by that staff.

(ii) The Academic Council may co-opt as members teachers of the University not exceeding six.

2. Members other than ex-officio members shall hold office for a period of three years, provided that persons appointed or elected as representatives of any particular body shall hold office so long only within the said period as they continue to be members of that body.

**Statute  
Elections**

3. The elections to the Academic Council shall be conducted in accordance with the Laws laid down in Chapter VI.

*Powers and Duties.*

**Act  
Powers and  
duties**

4. Subject to the provisions of the Act the Academic Council shall have the following powers, namely,—

(a) to advise the Syndicate on all academic matters;

(b) to make proposals to the Syndicate for the institution of professorships, readerships, lecturerships, or other teaching posts and in regard to the duties and emoluments thereof;

(c) to make proposals for regulating the special courses of study or division of subjects in constituent and affiliated colleges;

(d) to make regulations for and to award in accordance with such regulations medals and other rewards;

(e) to make regulations for the encouragement of co-operation and reciprocity among constituent and affiliated colleges with a view to promoting academic life;



(f) to make regulations regarding the admission of students to the University or prescribing examinations to be recognized as equivalent to University examinations or the further qualifications mentioned in sub-section (i) of section 36 for admission to the degree courses of the University;

(g) to make regulations relating to courses, examinations and the conditions on which students of affiliated colleges shall be admitted to examinations for the degrees of the University;

(h) to constitute from among its own members, Faculties in Arts, Science, Law, Medicine, Engineering, Teaching, Commerce and Agriculture and such other subjects as may be prescribed;

(i) to recommend to the Syndicate the names of persons suitable for appointment as Examiners and Assistant Examiners;

(j) to make recommendation to the Syndicate for the recognition of teachers qualified to give instruction in constituent and affiliated colleges and hostels;

(k) to control and manage the University library or libraries, to frame rules regarding its or their use and to appoint a library committee under the general control of the Academic Council to manage the affairs of the library;

(l) to formulate, modify or revise, subject to the control of the Senate, schemes for the constitution or reconstitution of departments of studies;

(m) to assign teachers to departments of studies;

(n) to promote research within the University and to call for reports on such research from the persons engaged thereon and to make recommendations to the Syndicate thereon; and

(o) to forward to the Syndicate or refer back the draft of any regulation prepared by the Council of Affiliated Colleges relating to courses, examinations and the conditions on which students of such colleges may be admitted to examinations for the degrees of the University;

Provided that the Council of Affiliated Colleges shall be consulted in respect of matters referred to in clauses (c), (e), (g), and (j).

*Meetings and Proceedings.*

5. The Academic Council shall meet ordinarily once in each term—on or about the second Friday in March, on or about the second Friday in August, and on or about the second Friday in December.

The Registrar shall, under the direction of the Vice-Chancellor, give not less than six weeks' notice of the date of an Ordinary meeting.

6. The Vice-Chancellor may whenever he thinks fit, and shall upon a requisition in writing signed by not less than 30 members of the Academic Council, convene a special meeting of the Academic Council. The requisition must be in writing, signed by the requisitionists, and must be forwarded to the Registrar with a copy of the resolution or resolutions to be moved and the name of the proposer of each resolution.

7. Any member who wishes to move a resolution at a meeting shall forward a copy of the resolution to the Registrar so as to reach him not less than thirty clear days before the date of the meeting.

8. The Registrar, under the direction of the Vice-Chancellor, shall cause each resolution of which notice has been given in accordance with Law 7 of this Chapter to be placed in the agenda paper of the meeting at which it is to be moved.

9. Not less than twenty-one days before the date of every meeting the Registrar shall issue to every member an agenda paper specifying the day and the hour of the meeting and the business to be brought before the meeting, but the non-receipt of the agenda paper by any member

shall not invalidate the proceedings of the meeting; provided that the Vice-Chancellor may bring any business which in his opinion is urgent before any meeting with shorter notice or without placing the same on the agenda paper.

10. Any member wishing to move an amendment to a resolution on the agenda paper of any meeting shall forward a copy of the same to the Registrar so as to reach him not less than seven clear days before the day of the meeting at which the resolution is to be moved.

Statute  
Amendments

11. The Registrar shall, on the receipt of amendments given in accordance with Law 10 of this Chapter, prepare an amended agenda paper showing all the resolutions as in the original agenda paper and all the amendments, and shall post a copy of it to each member of the Academic Council not less than five days before the date of the meeting.

Statute

12. Thirty members of the Academic Council shall be the quorum for a meeting of the Academic Council.

Statute  
Quorum

13. The Vice Chancellor, if present, shall preside at all meetings of the Academic Council, but if the Vice-Chancellor be not present the members present shall elect a Chairman from among themselves.

Statute  
Act  
Chairman

### *Business of Meeting.*

14. At every meeting of the Academic Council the following shall be the order of business after the election, if it be necessary, of the Chairman:—

Statute  
Order of business

(i) Any motion for a change in the order of business as stated in the agenda paper.

(ii) Business brought forward by the Vice-Chancellor for including business remitted by the Senate, the Syndicate and the Council of Affiliated Colleges.

(iii) Business brought forward by the Faculties.

(iv) Business brought forward by members of the Academic Council.

### *Procedure.*

15. The procedure at meetings of the Academic Council shall be regulated generally by the Statute at Chapter VII, Laws 14-16 and 29-65 in-  
**Procedure at meetings** clusive, so far as they are applicable, but the Academic Council shall have power to make standing orders modifying the procedure contained therein if it shall consider such modifications necessary for the better transaction of its business.

## CHAPTER X.

### THE COUNCIL OF AFFILIATED COLLEGES

#### *Constitution.*

**Act** 1. The Council of Affiliated Col-  
**Constitution** leges shall consist, in addition to the Vice-Chancellor, of the following:—

(i) the Principals of affiliated first-grade colleges;

(ii) five Principals of second-grade colleges elected by the Principals of such colleges;

(iii) one member for each district elected by the members of the district board and of the municipalities of that district;

(iv) representatives for every affiliated first-grade college, one being elected by the teachers of each of such colleges;

(v) ten persons nominated by the Chancellor; and

(vi) not more than ten teachers of the University to be appointed by the Academic Council,

2. Members other than ex-officio members shall hold offices for a period of three years, provided that persons appointed or elected as representatives of any particular body shall hold office so long only within the said period as they continue to be members of that body.

Act  
Duration of  
membership

Statute  
Election

3. The elections to the Council of Affiliated Colleges shall be conducted in accordance with the laws laid down in Chapter VI.

### *Duties and Powers.*

Act  
Powers and  
duties

4. The Council of Affiliated Colleges shall have the following powers:—

(a) to make proposals to the Syndicate or the Academic Council, as the case may be, to supplement the teaching provided by the affiliated colleges;

(b) to appoint an executive committee and such special or standing committees as it may consider desirable;

(c) to advise the Syndicate and the Academic Council on any matter affecting affiliated colleges;

(d) to submit draft Regulations and Ordinances to the Academic Council or to the Syndicate as the case may be;

(e) to advise the Syndicate on the affiliation of any institution beyond the limits of the University;

(f) to arrange in consultation with the colleges concerned for co-operation and reciprocity among affiliated colleges and for the concentration and co-ordination of resources for higher teaching and research and for the promotion of University life in suitable localities outside the limits of the University so as to prepare for the institution of new Universities;

(g) to make proposals to the Local Government through the Syndicate as to the financial provision that should be made for the affiliated colleges and as to the distribution of grants to such colleges;

(h) to recommend to the Syndicate the names of persons suitable for appointment as Examiners and Assistant Examiners;

(i) to advise the Academic Council on all matters referred to in Chapter IX, Law 4, clauses (c), (e), (g) and (j);

(j) to recommend to the Senate the creation of an Affiliated College Fund; and

(k) to exercise such other powers and perform such other duties as may be conferred or imposed upon it by the Statutes.

### *Meetings and Proceedings.*

5. The Laws regulating the meetings and proceedings of the Council of Affiliated Colleges shall be the same as those regulating the meetings and proceedings of the Academic Council so far as they are applicable; save that in the case of the Council of Affiliated Colleges the number of members required for a quorum and for a requisition for a special meeting shall be twenty.

6. The Council of Affiliated Colleges shall have power, subject to the provisions of the Act and the Statutes dealing with its constitution and powers, to make standing orders modifying the procedure contained in the aforesaid laws, if it shall consider such modifications necessary for the better transaction of its business.

## CHAPTER XI.

### FACULTIES.

1. The University shall include Faculties of Arts, Science, Law, Medicine, Engineering, Teaching, Commerce, Agriculture, Fine Arts, and such other Faculties as may be prescribed.

**Act  
Constitution.**

2. The Faculties shall be constituted from amongst the members of the Academic Council.

**3. Every  
Statute  
Assignment to  
Faculties.**

member of the Academic Council shall be assigned by order of the Academic Council to one or more of the Faculties at the meeting of the Academic Council next after his becoming a member .

**Act  
A Faculty for  
each department  
of teaching.**

4. Each Faculty shall comprise such Departments of Teaching as may be prescribed by the Ordinances, and there shall be a Board of Studies attached to each Department of Teaching.

5. The Faculty of Arts shall comprise the following departments of teaching: English, Sanskrit, Oriya with Marathi, Hindi, Burmese and Sinhalese, Greek with Latin, French and German, Hebrew with Syriac, Arabic, Persian and Urdu, Tamil, Telugu, Kanarese, Malayalam, Philosophy, History, Economics and Geography. The Faculty of Science shall comprise the following departments of teaching: Mathematics, Physics, Chemistry, Zoology, Botany and Geology. The Faculty of Fine Arts shall comprise the following departments of teaching: Drawing and Architecture, Indian Music and Western Music. The Faculties of Teaching, Law Medicine, Engineering, Agriculture and Commerce shall each comprise one department of teaching.

6. Each Faculty shall elect one of its members to be President of the Faculty. Within one month after the occurrence of a vacancy in the office of President of a Faculty, the Registrar shall send to each member of the Faculty an intimation of the vacancy and also a voting paper. The voting paper shall be returned by the member so as to reach the Registrar not later than the fourteenth day after the date of posting the information. The Vice-Chancellor shall declare the member who has the highest number of votes to be the President. In the

event of an equality of votes the final selection of the nominee to fill the vacancy shall be made by the Vice-Chancellor from among the nominees receiving such equality of votes by drawing lots in such manner as he may determine. The Registrar shall communicate the result of the election to the members of the Faculty.

7. The President of a Faculty shall, if he remains qualified to do so, hold office for three years, on the expiry of which he shall vacate office but shall be eligible for re-election.

**Statute  
Term of office**

8. During the temporary absence of the President of a Faculty, or in the interval between the vacating of office by a President and the election of his successor, the Vice-Chancellor shall nominate a member of the Faculty who shall, for the time being, and so far as may be necessary, act as President of the Faculty.

**Statute  
Nomination of a  
temporary President**

9. A Faculty shall have power—

**Statute  
Powers of a  
Faculty**

(i) to consider and report on any matter referred to it by the Academic Council;

(ii) to draft regulations in regard to courses of study and examinations prescribed by the University and to lay such regulations before the Academic Council;

(iii) to remit any matter to a Board of Studies comprised within the Faculty for consideration and report;

(iv) to consider any report or recommendation of any Board of Studies;

(v) to appoint a Committee of the Faculty for any purpose within the cognizance or powers of the Faculty;

(vi) to hold meetings of the Faculty or a Committee of the Faculty along with any other Faculty or a committee thereof for the discussion of any matter of common interest.



**10.** Meetings of a Faculty shall be convened by the President of the Faculty at such times as may be necessary or on the written request of any ten members in the case of the Faculty of Arts, of any five members in the case of the Faculty of Science and of any three members in the case of the Faculty of Law and of any two members in the case of the Faculties of Medicine, Engineering, Teaching, Commerce, Agriculture and Fine Arts.

**11.** Any member of a Faculty may bring before any meeting of the Faculty any matter within its cognizance by giving notice to the President, who shall subject to the provisions of Law 9 of this Chapter, instruct the Registrar to include such matter in the agenda paper of the next meeting of the Faculty.

**12.** The President of a Faculty shall, not less than fifteen days previous to a meeting of the Faculty, cause a notice to be issued to each member of the Faculty stating the time and place of the meeting, and showing all the business to be brought before the meeting. No matter of business which is not entered on the agenda paper of a meeting of a Faculty shall be considered at the meeting: provided that the President may, for reasons of urgency, bring any matter before any meeting without notice being given in the agenda paper; and provided that any member may, with the permission of a majority of the members present at a meeting, bring any matter before that meeting without notice.

**13.** Subject to the foregoing regulations the procedure at meetings of Faculties shall be in general accordance with the regulations in regard to the procedure at meetings of the Academic Council. With regard to any point of order or matter of procedure the decision of the Chairman shall be final.

**14.** The President of a Faculty shall preside at all meetings of the Faculty, but, in his absence, the members present shall elect a Chairman from among themselves,

**Statute**  
**Quorum** 15. The quorum for a meeting of a Faculty shall be one-third of the members of the Faculty.

**Statute**  
**Remission of**  
**matter to Boards**  
**of Studies** 16. When a Faculty remits any matter to a Board or Boards of Studies, it may request the Board or Boards to communicate its or their report or decision directly to the Academic Council.

17. The President of a Faculty may, in his discretion, remit any matter referred to the Faculty to a Board or Boards of Studies without laying it before a meeting of the Faculty, and may transmit the report or decision of the Board or Boards to the Academic Council without laying it before a meeting of the Faculty.

**Statute**  
**Proceedings to**  
**be communicated**  
**to Academic**  
**Council** 18. The proceedings at each meeting of a Faculty shall be communicated by the Registrar to the Academic Council.

## CHAPTER XII.

### BOARDS OF STUDIES.

**Statute**  
**Boards of**  
**Studies** 1. There shall be Boards of Studies in the following branches of knowledge:—

- |   |                                |
|---|--------------------------------|
| i. English.   | xiv. Geography.                |
| ii. Sanskrit.                                       | xi. Mathematics.               |
| iii. Oriya, Marathi, Hindi, Burmese, and Sinhalese. | xvi. Phys.cs.                  |
| iv. Greek, Latin, French and German.                | xvii. Chemistry.               |
| v. Hebrew, Syriac, Arabic, Persian and Urdu.        | xviii. Botany.                 |
| vi. Dravidian Languages.                            | xix. Zoology.                  |
| vii. Tamil.   | xx. Geology.                   |
| viii. Telugu.                                       | xxi. Teaching.                 |
| ix. Kanarese.                                       | xxii. Law.                     |
| x. Malayalam.                                       | xxiii. Medicine.               |
| xi. Philosophy.                                     | xxiv. Engineering.             |
| xii. History and Politics.                          | xxv. Agriculture.              |
| xiii. Economics.                                    | xxvi. Commerce.                |
|   | xxvii. Drawing & Architecture. |
|   | xxviii. Indian Music.          |
|   | xxix. Western Music.           |

**Statute  
Constitution of  
Boards**

2. Each Board shall consist of:—

(a) the University Professor or where there is no Professor, the Head of the Department or Section in the subject for which the Board is appointed, *ex-officio*; and

(b) no fewer than three nor more than twelve members appointed by the Academic Council. The members of the respective Boards other than *ex-officio* members shall be appointed by the Academic Council, and shall consist of members of Academic Council and other persons possessing special knowledge of the subjects dealt with by the Boards to which they are appointed.

The members of the Board, other than *ex-officio* members, shall hold office for a period of three years from the date of their appointment, and any member appointed to fill in an interim vacancy shall hold office only for the residue of the term for which the person whose place he fills would have been a member. A member who has been absent from India for a period exceeding six months, or who has not attended two consecutive meetings of the Board may be declared by the Academic Council to have vacated his seat on the Board.

3. Each Board shall, wherever possible, elect one of its own members who is resident within the limits of the University, to be its Chairman, the manner of election being the same as that of the election of the President of a Faculty.

4. It shall be the duty of each Board of Studies to consider and report on any matter referred to it in accordance with the Laws (Statutes, Ordinances or Regulations) of this University, by the Syndicate or by the Academic Council or the Faculty or President of the Faculty concerned with the subjects with which it deals.

5. Each Board shall have power to recommend to the Academic Council persons to be members of the Board or to be Examiners or Assistant Examiners in the subjects with

**Statute  
Powers**

which it deals; to recommend text-books when necessary; to consult specialists who are not members of the Board; to make recommendations in regard to courses of study and examinations in the subject with which it deals; and to lay such recommendations before the Academic Council.

6. Meetings of a Board of Studies shall be convened by the Chairman of the Board, or at his request by the Registrar, at such times as may be necessary, or on the written request of not less than one-third of the number of members serving on the Board, at the time. Where, in the temporary absence of a Chairman, a meeting of a Board of Studies is required to be convened for the purpose of urgently dealing with any University business, the Registrar will act as Convener and shall take the necessary action.

7. The Chairman of a Board who has been unable to attend to the business of the Board, for a period of three months or more during term time, shall be deemed to have vacated his office. In such a case, the Syndicate shall call upon the members of the Board in question to elect a Chairman.

8. The Chairman shall preside at all meetings of the Board of Studies, and in his absence at any particular meeting, the members present shall elect their own Chairman. Three members shall form a quorum.

## CHAPTER XIII.

### EXAMINATION BOARDS (ORDINANCES).

1. Examination Boards shall, if necessary, be appointed annually by the Syndicate for the following subjects or groups of subjects:—

- i. English.
- ii. Greek and Latin.
- iii. French.
- iv. German.
- v. Sanskrit.
- vi. Marathi.
- vii. Hindi.

- viii. Oriya.
- ix. Burmese.
- x. Sinhalese.
- xi. Hebrew.
- xii. Arabic, Persian and Urdu.
- xiii. Tamil.
- xiv. Telugu.

xv. Kanarese.  
 xvi. Malayalam.  
 xvii. Mathematics.  
 xviii. Physics  
 xix. Chemistry.  
 xx. Botany  
 xxi. Zoology.  
 xxii. Geology.  
 xxiii. Philosophy.  
 xxiv. History and Politics.  
 xxv. Economics

xxvi. Geography.  
 xxvii. Teaching.  
 xxviii. Law.  
 xxix. Medicine.  
 xxx. Sanitary Science.  
 xxxi. Engineering.  
 xxxii. Agriculture.  
 xxxiii. Commerce.  
 xxxiv. Indian Music.  
 xxxv. Western Music.  
 xxxvi. Drawing and Architecture.

2. Applications for Examinerships and Additional and Assistant Examinerships for the succeeding academic year will be received in the University Office up to and including the 15th December of each year after which date no applications for Examinerships, etc., will be entertained. The applications should be submitted in the prescribed form procurable from the Registrar's Office.

3. Principals of Colleges may, should they so desire, transmit to the Registrar not later than 15th December of each year, a list containing names of members of their staff whom they desire to recommend for appointment as Examiners, etc., with a statement of the academical qualifications and teaching experience of the persons recommended and the subjects in connection with which they are recommended for appointment.

4. The applications for Examinerships, etc., received direct by the Registrar and the names recommended by Principals of Colleges shall be forwarded by the Registrar to the Boards of Studies concerned for consideration and recommendation of suitable persons as Examiners, etc. The final recommendations of the Boards of Studies shall be placed before the Academic Council and the Council of Affiliated Colleges.

5. Special Boards shall be appointed for the purpose of supervising the Matriculation Examination and the Intermediate Examination in Arts and Science.

6. The Syndicate shall appoint a Chairman for each Board who shall at the conclusion of every examination forward to the Syndicate a report on the manner in which the examination has been conducted.

7. The Syndicate shall appoint Question-paper setters, Examiners, Additional Examiners who are not members of the Boards, and Assistant Examiners after consideration of the lists submitted by the Academic Council and the Council of Affiliated Colleges, and shall report annually to the Senate, the Academic Council and the Council of Affiliated Colleges the names of the persons so appointed.

8. A consolidated list of the recommendations of the Academic Council and the Council of Affiliated Colleges shall be maintained by the Registrar, which shall be amended annually in accordance with the recommendations of these authorities.

9. Boards of Examiners may forward to the Syndicate the names of persons recommended by them as Additional and Assistant Examiners from the list referred to in paragraph 8 which shall be supplied to the respective Boards.

10. Question-paper setters shall be appointed for one year and shall be eligible for reappointment.

11. Examiners shall be appointed for one year and shall be eligible for reappointment in the two successive years following the year of appointment and shall ordinarily be reappointed. Examiners who have held office for three successive years whether in the same subject or in different subjects, shall not be reappointed until a period of two years has elapsed, provided (1) that the number of new Examiners appointed to a Board in any year shall not exceed one-third of the total number appointed and (2) that this rule shall not apply in the case of

**Examiners appointed for examinations in subjects in which the number of competent Examiners is so small as to make it undesirable in the opinion of the Syndicate that the rule should be enforced strictly.**

12. Assistant Examiners shall be appointed for one year and shall ordinarily be reappointed for a second year. They shall not be eligible for further reappointment either in the same subject or in other subjects until a period of two years has elapsed, provided that the number of new Assistant Examiners appointed in any year shall not exceed fifty per cent of the total number appointed.

13. An Examiner who is reappointed but not in successive years shall not hold office for more than three years in any period of five years; and an Assistant Examiner who is reappointed but not in successive years shall not hold office for more than two years in any period of four years.

14. An Assistant Examiner who is ineligible for reappointment as such may be appointed as an Examiner, but an Examiner who is ineligible for reappointment shall not be eligible for appointment as an Assistant Examiner.

15. In the case of examinations which are held twice a year, in September-October as well as March-April, the Additional Examiners and Assistant Examiners required shall ordinarily be selected to the number required from among those persons who examined for the March-April Examinations.

16. Question-paper setters and Examination Boards shall be appointed by the Syndicate ordinarily in July, and Additional Examiners who are not members of the Boards and Assistant Examiners to the number required shall be appointed ordinarily in January.

**Time for appointment of Examiners**

17. A list shall be prepared annually by the Registrar showing who have been Question-paper setters, Examiners and Assistant Examiners during the preceding five years.

**Five years' list**

**Cancellation of appointment** 18. The Syndicate may, at any time, cancel the appointment of an Examiner or Assistant Examiner.

19. The Syndicate shall have power after consultation with the Academic Council to fix the fees and other remuneration and allowances to be paid to Question Paper Setters, Examiners and Assistant Examiners and to Chairmen of Boards appointed under Ordinances 6 and 16 of this Chapter.

## CHAPTER XIV.

### \* FINANCE.

**Act** 1. The University shall have a fund  
**Funds of the University** to which shall be credited.

(1) its income from fees, endowments and grants, if any, and

(2) any contribution by the Local Government.

The Local Government shall contribute annually towards the said fund

(a) a sum equal to the amount of contribution by the Local Government in the financial year prior to the coming into force of the Act towards the recurring expenditure of the University; and

(b) a sum on such conditions as the Local Government may impose towards the salary, if any, of the Vice-Chancellor, the development of laboratory, library, museums and workshops and the salaries of such teachers of the University as are appointed for higher research and advancement and dissemination of knowledge in particular branches of learning.

2. The accounts of the University shall be kept by the Registrar under the directions of the Syndicate and shall annually be submitted to such examination and audit as the Local Government may direct.

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\* Vide Appendix XXIX for Financial and Account Rules.



3. The accounts when audited shall be published by the Syndicate in the *Fort St. George Gazette* and copies thereof shall together with copies of the audit report be submitted to the Senate and the Local Government.

Act and Statute  
Estimates 4. The Syndicate shall annually prepare before the 1st February the financial estimate for the ensuing year.

Act  
Annual Accounts 5. The annual accounts and the financial estimates shall be considered by the Senate at its annual meeting and the Senate may pass resolutions with reference thereto and communicate the same to the Syndicate which shall take action in accordance therewith.

Statute  
Expenditure in excess of budget allotments 6. The Syndicate may incur expenditure outside or in excess of the budget allotments for the year as adopted by the Senate, but such expenditure shall be reported to the next meeting of the Senate for sanction. The Syndicate, however, shall have power to reappropriate from one detailed head to another in the same account provided that no recurring liability is involved.

Statute  
Unspent balances 7. Unspent balances of budget allotments at the close of the financial year shall lapse and shall not be available for expenditure in a succeeding year except under the budget of that year.

Statute  
Receipts and disbursements 8. The Registrar shall be empowered to receive all payments to the University, which shall be credited under proper heads of account. All cash and accumulated balances in the Fee Fund Account shall remain in the custody of the Accountant-General, Madras. The Registrar shall make all authorized payments, including fees, salaries and allowances payable out of University funds,

9. The Syndicate may invest any moneys belonging to the University including any unapplied income in any of the securities described in section 20 of the Indian Trusts Act, 1882, with the power to vary such investments or to place on fixed deposit in any bank approved in this behalf by the Local Government, any portion of such moneys not required for current expenditure.

**Statute  
Investments**

**\* Statute VIII of  
Schedule I  
Pension or Pro-  
vident Fund**

10. There shall be instituted for the benefit of the officers, teachers and servants of the University such pension or provident fund as the Senate may deem fit.

## CHAPTER XV.

### CONVOCATIONS FOR CONFERRING DEGREES.

1. Convocations for the purpose of conferring degrees shall be held every year ordinarily in the months of February and August and at such other times as the Chancellor shall direct.

**Statute  
Convocations  
held annually**

2. Candidates for degrees must, fifteen clear days before the day fixed for convocation, submit to the Registrar their applications for admission to their several degrees in the prescribed forms. No person shall be admitted to convocation who has not thus sent in his application to the Registrar.

**Statute  
Date of applica-  
tion**

3. Any person who, having sent in his name to the Registrar as a candidate for a degree at convocation, fails to appear shall, when he next applies for his degree, be charged a fee of rupees ten, unless he can furnish to the Syndicate a sufficient reason for his non-appearance.

**Statute  
Penalty for  
absence**

**Statute  
Degree  
absentia "**

4. A candidate for a degree may, on payment of a fee of ten rupees, be admitted *in absentia* to that degree.

5. The Chancellor, Pro-Chancellor, Vice-Chancellor, Presidents of the Faculties, and members of the Senate shall wear the Academic robes prescribed and assemble in Syndicate room at the appointed hour.

Statute  
Assembly of  
Senate

In the absence of the Chancellor, the Pro-Chancellor, the Vice-Chancellor or other member of the Senate nominated by the Chancellor shall preside.

6. The graces of the Senate on behalf of the candidates for admission to the several degrees will be supplicated in the following order:—

Statute  
Graces of the  
Senate

*Law*—by the President of the Faculty of Law.

*Medicine*—by the President of the Faculty of Medicine.

*Engineering*—by the President of the Faculty of Engineering.

*Science*—by the President of the Faculty of Science.

*Agriculture*—by the President of the Faculty of Agriculture.

*Commerce*—by the President of the Faculty of Commerce.

*Teaching*—by the President of the Faculty of Teaching.

*Arts*—by the President of the Faculty of Arts.

7. The formula to be used for each grace shall *mutatis mutandis* be as follows:—

Statute  
Form of Grace

.....Chancellor, I move that a grace of the Senate be passed that those persons whom the Syndicate on the reports of the Examiners has certified to be qualified for the degree of .....be admitted to that degree.'

8. Whereupon the Chancellor shall put the question '*Doth it please you that this grace be passed?*' and the Senate assenting, the Chancellor shall say '*This grace is passed.*'

Statute  
Passing of  
Grace

9. When all the graces have been passed, the Chancellor, Pro-Chancellor, Vice-Chancellor, Presidents of the Faculties and Members of the Senate shall proceed in procession to the hall in which the degrees are to be conferred.

10. The hall shall be so arranged that the Chancellor's chair may be somewhat in advance; the chairs assigned to the Pro-Chancellor, the Vice-Chancellor and members of the Senate being placed in a half circle, so as to leave full space for the presentation of the candidates. Special seats shall be provided in the hall for the members of the Academic Council and the Council of Affiliated Colleges.

11. The candidates shall wear the gowns and hoods pertaining to their respective degrees, and shall be arranged opposite to the Chancellor.

12. On the procession entering the hall, the candidates shall rise and remain standing until the Chancellor, Pro-Chancellor, Vice-Chancellor, Presidents of the Faculties and members of the Senate have taken their seats.

13. The Chancellor, Pro-Chancellor, Vice-Chancellor, Presidents of the Faculties and members of the Senate having taken their places, the Chancellor shall say:

This convocation of the University of Madras has been called to confer degrees upon the candidates who, in the examinations recently held for the purpose, have been certified to be worthy of the same. Let the candidates stand forward.

14. Then the candidates standing, the Chancellor shall put to them the following questions:—

Question.—*Do you sincerely promise and declare that, if admitted to the degrees for which you are severally*

*candidates, and for which you have been recommended, you will, in your daily life and conversation, conduct yourselves as becomes members of this University?*

*Answer.*—I do promise.

*Question.*—*Do you promise that to the utmost of your opportunity and ability you will support and promote the cause of morality and sound learning?*

*Answer.*—I do promise.

*Question.*—*Do you promise that you will, as far as in you lies, uphold and advance social order and the well being of your fellow men?*

*Answer.*—I do promise.

In the case of candidates for professional degrees, the following addition shall be made:—

*Question.*—*Do you promise that you will faithfully and carefully fulfil the duties of the legal, medical, engineering, teaching and agricultural professions, that you will, on all occasions, maintain their purity and reputation, and that you will never deviate from the straight path of their honourable exercise by making your knowledge subservient to unworthy ends?*

*Answer.*—I do promise.

Statute  
Presentation of  
candidates

15. Then the Chancellor shall say:

*Let the candidates be now presented*

16. Then the candidates shall be presented to the  
, Chancellor by the heads of their respec-  
Statute tive colleges being members of the Senate  
or by other members of the Senate, the candidates having  
first received their diplomas from the Registrar.

**Statute  
Admission to  
degrees**

17. When all the candidates for the same degree have been presented, the Chancellor shall say to the candidates, who shall remain standing:

By virtue of the authority vested in me as Chancellor  
Pro-Chancellor  
Vice-Chancellor  
of the University of Madras, I admit you to the degree of  
.....in this University, and in token  
thereof you have been presented with these diplomas, and  
I authorize you to wear the hood ordained, as the insignia  
of your degree.

**Statute  
Record of  
degrees**

18. When all the candidates have been presented, the Registrar shall lay the record of the degrees that have been conferred, before the Chancellor, who shall sign the same.

19. Then an address may be made to the candidates by a member of the Senate or a member of the Academic Council or of the Council of Affiliated Colleges, appointed by the Chancellor, exhorting the candidates to conduct themselves suitably unto the position to which, by the degrees conferred upon them, they have attained.

20. The address being ended, or if there is no address, after the record has been signed, the Chancellor, Pro-Chancellor, Vice-Chancellor, Presidents of the Faculties and members of the Senate shall rise up and the Chancellor shall say:

76.

*I dissolve this Convocation.*

21. Then the Chancellor, Pro-Chancellor, Vice-Chancellor, Presidents of the Faculties and members of the Senate shall retire in procession to the Senate room, the graduates standing.

**Statute  
Procession**

## CHAPTER XVI.

## ACADEMIC ROBES.

*Chancellor.*

1. A purple terry velvet gown, made like an Oxford Proctor's dress gown, with two-inch gold  
 Statute lace down the fronts and round the bottom of the sleeves outside.

A black velvet academic cap, bound round with gold lace and gold tassel, nine inches long.

*Pro-Chancellor.*

2. A purple gown of silk or stuff  
 Statute same shape as the Chancellor's, and trimmed in the same way.

A cap like the Chancellor's, or a turban.

*Vice-Chancellor.*

3. A purple gown of silk or stuff same shape as the  
 Statute Chancellor's and trimmed in the same way, but with silver lace.

A cap like the Chancellor's, but with silver lace and tassel, or a turban.

*Registrar.*

4. A black laced gown of silk or  
 Statute stuff.

A black cloth academic cap or a turban.

*Members of the Senate, The Academic Council, and  
 The Council of Affiliated Colleges.*

5. A black gown of silk or stuff and a scarf of scarlet  
 Statute silk or stuff four inches wide, with a fringe of the same colour, three inches deep.

A black velvet academic cap, or either a white, red, or black turban, which may have a gold border, or the gown and hood prescribed for the University degree taken.

*Graduates.*

6. Graduates who are in the habit of wearing Indian costume shall be clothed in white, and  
 Statute shall wear either a white, red, or black turban, which may have a gold border. All those who wear European costume shall wear either a black cloth academic cap or a turban of the above description.

Women graduates shall not be required to be clothed in white dress or to wear any head dress.

*Bachelor of Arts or of Science.*

7. A gown made of black stuff, cut  
 Statute like the Cambridge B.A. gown.

A hood made of black silk or stuff edged with crimson silk.

*Bachelor of Science in Agriculture.*

8. A gown similar to that of the B.A. Degree.

A hood made of black silk or stuff, edged with green.

*Master of Arts or of Science.*

9. A gown made of black silk or  
 Statute stuff cut like the Cambridge M.A. gown.

A hood made of black silk or stuff lined with crimson silk or stuff.

*Bachelor of Laws.*

10. A gown similar to that for the  
 Statute B.A. degree.

A hood made of black silk or stuff lined with purple silk or stuff.



*Master of Laws.*

- Statute                      11. A gown similar to that for the  
M.A. degree.

A hood made of purple silk or stuff.

*Licentiate in Medicine and Surgery.*

- Statute                      12. A gown similar to that for the  
B.A. degree.

A hood made of black silk or stuff edged with light-blue silk or stuff.

*Bachelor of Medicine and surgery.*

- Statute                      13. A gown similar to that for the  
B.A. degree.

A hood made of black silk or stuff lined with light-blue silk or stuff.

*Doctor of Medicine or Master of Surgery.*

- Statute                      14. A gown similar to that for the  
M.A. degree.

A hood made of light-blue silk or stuff.

*Bachelor of Sanitary Science.*

- Statute                      15. A gown similar to that for the  
B.A. Degree.

A hood made of black silk or stuff edged with terracotta silk or stuff.

*Bachelor of Engineering.*

- Statute                      16. A gown similar to that for the  
B.A. degree

A hood made of black silk or stuff lined with orange silk or stuff.

*Licentiate in Teaching.*

- Statute 17. A gown pertaining to the B.A. or M.A. degree.

A hood made of black silk or stuff lined with gold coloured silk or stuff.

*Degree of Doctor in any Faculty.*

- Statute 18. A gown made of white silk or stuff with scarlet cloth facings.

A hood made of scarlet silk or stuff.

*Master of Oriental Learning.*

19. A gown made of scarlet silk.

A hood of scarlet silk or stuff lined with pearl grey silk or stuff.

*Titles in Oriental Learning.*

20. Recipients of Oriental Titles shall wear a long coat and either a white, red or black turban, which may have a gold border.
- Statute

*Diploma in Economics.*

21. Candidates for the award of Diplomas in Economics at Convocation shall wear, if they are graduates, the gowns, and hoods pertaining to their respective degrees, and if they are not graduates, either the costume prescribed for recipients of Oriental Titles or an ordinary European costume.
- Statute

CHAPTER XVII.

CONSTITUENT COLLEGES.

1. Constituent Colleges are colleges maintained or recognized by the University in accordance with the provisions of the Act in which instruction is provided under prescribed conditions and which are
- Act  
Definition

situated within the limits of the University, that is, within a radius of ten miles from Fort St. George.

2. Those colleges situated within the limits of the University which enjoyed the privileges of affiliation to the University of Madras before 5th March 1924 shall be constituent colleges of the University, provided that they satisfy the conditions which shall be prescribed for the purpose.

3. The Syndicate shall have power to recognise, after consultation with the Academic Council, any college within the limits of the University as a constituent college on such general or special conditions as may be prescribed, and to manage any college which may be maintained by the University.

4. Every constituent college not maintained by the University shall be managed by a regularly constituted governing body on which, except in the case of a Government College, the teaching staff is represented, appointed by the person or body maintaining the college, the constitution of which shall be periodically reported to and approved of by the Syndicate.

5. The appointment of the members of the teaching staff of every constituent college shall be made by the governing body or any authority to whom such body may have delegated the power, and all such appointments shall be reported to the Syndicate and shall be subject to the approval of the Syndicate.

6. Colleges or Departments of Colleges may be recognized by the University as providing courses of instruction in Arts, Science, Law, Medicine, Engineering, Teaching, Commerce or Agriculture. The recognition shall be given specifically for each subject or group of subjects and for each separate standard in each of the Faculties.

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*Application and conditions to be fulfilled.*

**Statute  
Conditions for  
recognition**      7. A college applying for recognition shall send a letter of application to the Registrar and shall satisfy the Syndicate—

(a) that the college is to be under the management of a regularly constituted governing body on which, except in the case of a Government College, the teaching staff is represented;

(b) that, except in so far as inter-collegiate or University lectures have been provided under Chapter XXII, the character and qualifications of the teaching staff and the conditions governing their appointment and tenure of office are such as to make due provision for the courses of instruction to be undertaken by the college, and that due proportion is maintained between the number of the staff and that of the students under instruction;

(c) that the college has attached to it a Medical Officer of the recognised qualifications in order to conduct the Medical Inspection of Students in the College;

(d) that the buildings in which the college is to be located are suitable, that each lecture room is well lit and ventilated, and that there is in the college buildings accommodation adequate to the number and strength of the classes as regards rooms, floor space, and cubic space; and that provision will be made in conformity with the laws, for the residence, in the college or in lodgings approved by the college, of students not residing with their parents or duly recognized guardians, and for the supervision and physical welfare of students;

(e) that due provision has been or will be made for a library;

(f) where recognition is sought in any branch of experimental science, that except in so far as inter-collegiate or University lectures have been provided under Chapter XXII, arrangements have been or will be made, in conformity with the laws, for imparting instruction in that branch of science in a properly equipped laboratory or museum;

(g) that due provision will, so far as circumstances may permit, be made for the residence of the head of the college and some members of the teaching staff in or near the college or the place provided for the residence of students;

(h) that the financial resources of the college are such as to make due provision for its continued maintenance;

(i) that the recognition of the college, having regard to the provision made for students by other colleges in the same neighbourhood, will not be injurious to the interests of education or discipline;

(j) that the college rules fixing the fees (if any) to be paid by students have not been so framed as to involve such competition with any existing college in the same neighbourhood as would be injurious to the interests of education; and

(k) that, in the case of colleges for women, the staff will be wholly, or almost wholly, composed of women, and that ample space will be provided for games and physical exercise.

The application shall further contain an assurance that after the college is recognised the management will conform to, abide, and be bound by the Laws of the University for the time being and will report forthwith to the Syndicate any transference of management and all changes in the teaching staff.

(l) The College shall also pay to the University a recognition fee calculated, in the case of first application for recognition, at the rate of Rs. 150 for each member of the Inspection Commission appointed by the Syndicate and in the case of application for further recognition at the rate of Rs. 100 for each such member.

8. On receipt of a letter of application the Syndicate shall direct an enquiry to be made by a competent person or persons authorised by the Syndicate in this behalf. After considering the report of the Inspection Commission and after making any further inquiries it

Statute  
Procedure on  
receipt of appli-  
cation

may deem necessary the Syndicate shall decide whether the recognition should be granted or refused either in whole or in part, and shall report its decision to the Senate.

9. The Syndicate shall have the power to grant conditional recognition, and in the event of the conditions laid down not being fulfilled within the time specified such recognition shall lapse and a fresh application on the part of the management of the college shall be necessary.

**Statute**  
**Conditional re-**  
**ognition**

A recognition granted on the basis that part of the instruction to be undertaken by the College is being given by inter-collegiate or University lectures shall be conditional upon the continued existence of arrangements for such courses of inter-collegiate or University lectures.

10. An application for recognition may be withdrawn at any time before an order has been passed by the Syndicate, provided that the College shall not be entitled to a refund of the fee paid in cases in which the University incurs the expenditure of sending out the Inspection Commission.

**Statute**  
**Withdrawal of**  
**application**

11. Where a college desires to add to the course of instruction in respect of which it is recognized the procedure prescribed by Laws 8 and 9 of this Chapter shall, so far as may be, be followed, save that a local inquiry need not be held if, in the opinion of the Syndicate, such an inquiry is unnecessary.

**Statute**  
**Further re-**  
**cognition**

12. Each college shall be subject to inspection from time to time by one or more competent persons authorised by the Syndicate in this behalf.

**Statute**  
**Inspection**  
**Colleges**

13. The Syndicate may call upon any college so inspected to take, within a specified period, such action as may appear to it to be necessary in respect of any matters referred to in Law 8 of this Chapter.

**Statute.**  
**Action to be**  
**taken by colleges**  
**on reports**

14. Each college shall furnish such returns and reports and other information as the Syndicate may require to enable it to judge of the efficiency of the college.

15. The following registers and records in the forms that may be prescribed by the Syndicate shall be maintained by each college, and in every case in which a school forms a part of the institution, they shall be maintained distinct from those kept for the school department—

- (a) A register of admissions and withdrawals.
- (b) A register of attendance.
- (c) A register of fees paid showing dates of payments.
- (d) A counterfoil fee receipt book.
- (e) Account books showing the financial transactions of the college.
- (f) A register of scholarships and concessions of all kinds whether of tuition, board or lodgings.
- (g) A register of marks obtained by each student at the college examinations.
- (h) A register of addresses of students.
- (i) A counterfoil book of transfer certificates.
- (j) A counterfoil book of certificates of Medical Inspection of students.

## CHAPTER XVIII

### AFFILIATED COLLEGES.

1. Affiliated colleges are colleges situated outside the limits of the University and affiliated to the University of Madras as constituted prior to the commencement of this Act or admitted to the privileges of affiliation with the University under prescribed conditions,

2. The Syndicate shall have power to affiliate any college outside the limits of the University as an affiliated college on such general or special conditions as may be prescribed. The Council of Affiliated Colleges shall have the power to advise the Syndicate on the affiliation of any institution and the Syndicate shall before granting affiliation, consult the Council of Affiliated Colleges or when it is not in session the Executive Committee of that body.

3. Every affiliated college shall be managed by a regularly constituted governing body on which, except in the case of a Government College, the teaching staff is represented, appointed by the person or the body maintaining the college, the constitution of which shall be periodically reported and approved of by the Syndicate.

4. The appointment of the members of the teaching staff of every affiliated college shall be made by the governing body or any authority to whom such body may have delegated the power and all such appointments shall be reported to the Syndicate and shall be subject to the approval of the Syndicate.

5. Colleges or departments of colleges may be affiliated to the University in Arts or Science or in a department of Arts or of Science, in Law, Medicine, Engineering, Teaching, Commerce or Agriculture.

*Application and conditions to be satisfied.*

6. A college applying for affiliation shall be situated outside the territorial limits of the Madras University.

7. In the case of a Government College or a State College in an Indian State the application shall be made by the Director of Public Instruction or other chief educational officer of the province or State in



which it is constituted; in the case of any other college by the responsible authority.

Statute  
Conditions to be satisfied  
8. A college applying for affiliation to the University shall send a letter of application to the Registrar and shall satisfy the Syndicate:—

(a) that the college is to be under the management of a regularly constituted governing body on which, except in the case of a Government College, the teaching staff is represented;

(b) that, except in so far as inter-collegiate or University lectures have been provided under Chapter XXII, the character and qualifications of the teaching staff and the conditions governing their appointments and tenure of office are such as to make due provision for the courses of instruction to be undertaken by the college, and that due proportion is maintained between the number of the staff and that of the students under instruction;

(c) that the college has attached to it a Medical Officer of the recognised qualifications in order to conduct the Medical Inspection of students in the college;

(d) that the buildings in which the college is to be located are suitable, that each lecture room is well lit and ventilated, and that there is in the college buildings accommodation adequate to the number and strength of the class as regards rooms, floor-space, and cubic space; and that provision will be made, in conformity with the laws, for the residence in the college or in lodgings approved by the college, of students not residing with their parents or duly recognised guardians, and for the supervision and physical welfare of students;

(e) that due provision has been or will be made for a library;

(f) where affiliation is sought in any branch of experimental science, that, except in so far as Inter-collegiate or University lectures have been provided under Chapter XXII, arrangements have been or will be made in conformity with the laws for imparting instruction in that

branch of science in a properly equipped laboratory or museum;

(g) that due provision will, so far as circumstances may permit, be made for the residence of the head of the college and some members of the teaching staff in or near the college or the place provided for the residence of students;

(h) that the financial resources of the college are such as to make due provision for its continued maintenance;

(i) that the affiliation of the college having regard to the provision made for students by other colleges in the same neighbourhood will not be injurious to the interests of education or discipline;

(j) that the college rules fixing the fees (if any) to be paid by students have not been so framed as to involve such competition with any existing college in the same neighbourhood as would be injurious to the interests of education; and

(k) that, in the case of colleges for women, the staff will be wholly, or almost wholly, composed of women, and that ample space will be provided for games and physical exercise.

The application shall further contain the assurance that after the college is affiliated the management will conform to, abide, and be bound by the laws of the University for the time being and will report forthwith to the Syndicate any transference of management and all changes in the teaching staff.

The College shall also pay to the University an affiliation fee calculated, in the case of first application for affiliation, at the rate of Rs. 150 for each member of the Inspection Commission appointed by the Syndicate and in the case of application for further affiliation at the rate of Rs. 100 for each such member.

9. On receipt of a letter of application the Syndicate shall direct an inquiry to be made by a competent person or persons authorised by the Syndicate in its behalf. After considering the report of the

Statute  
Procedure on  
receipt of applica-  
tion

Inspection Commission and after making any further inquiries it may deem necessary, the Syndicate shall decide whether the affiliation should be granted or refused either in whole or in part, and shall report its decision to the Senate and to the Council of Affiliated Colleges.

10. The Syndicate shall have the power to grant conditional affiliation and in the event of the conditions laid down not being fulfilled within the time specified, such affiliation shall lapse and a fresh application on the part of the management of the college shall be necessary.

11. An application for affiliation may be withdrawn at any time before an order has been passed by the Syndicate, provided that the College shall not be entitled to a refund of the fee paid in cases in which the University incurs the expenditure of sending out the Inspection Commission.

12. Where a college decides to add to the courses of instruction in respect of which it is affiliated, the procedure prescribed by Laws 9 and 10 of this chapter shall, so far as may be, be followed, save that a local inquiry need not be held if in the opinion of the Syndicate such an inquiry is unnecessary.

13. Each college shall be subject to inspection from time to time by one or more competent persons authorised by the Syndicate in its behalf.

14. The Syndicate may call upon any college so inspected to take within the specified period such action as may appear to it to be necessary in respect of any matters referred to it in Law 9 of this chapter.

15. Each college shall furnish such returns and report and other information as the Syndicate may require to enable it to judge of the efficiency of the college.

16. The following registers and records in the forms that may be prescribed by the Syndicate shall be maintained by each college and in every case in which a school forms a part of institution they shall be maintained distinct from those kept for the school department:—

**Statute  
Registers and  
records to be  
maintained by  
Colleges**

- (a) A register of admissions and withdrawals.
- (b) A register of attendance.
- (c) A register of fees paid showing dates of payment.
- (d) A counterfoil fee receipt book.
- (e) Account books showing the financial transactions of the college.
- (f) A register of scholarships and concessions of all kinds, whether of tuition, board or lodgings.
- (g) A register of marks obtained by each student at the college examinations.
- (h) A register of addresses of students.
- (i) A counterfoil book of transfer certificates.
- (j) A counterfoil-book of certificates of Medical Inspection of students.

## CHAPTER XIX

### RESIDENCE OF STUDENTS.

1. For the purposes of laws 'a hostel' means (1) one maintained or managed by the University, (2) one maintained or managed by a constituent or an affiliated college and recognised by the University, and (3) one not attached to a college but recognised by the University.

2. Students who do not live either with their parents or with duly recognised guardians shall reside in a hostel or, until adequate hostel accommodation is provided, in rooms inspected and approved of by the authorities of the colleges to which they belong.

**Act and Statute.  
Residence of  
students**

**Act and Statute.  
Supervision of  
Students**

3. In every college students not living in hostels shall be assigned to individual members of the college staff for tutorial help and disciplinary supervision.

**Statute V (a) in  
Schedule I,  
Management of  
hostels**

4. All recognised hostels shall be managed by a regularly constituted governing body appointed by the person or body maintaining the hostel, the constitution of which shall be periodically reported to and approved of by the Syndicate.

**Statute V (b) in  
Schedule I.  
Appointment of  
Superintending  
staff**

5. The appointment of the superintending staff of every recognised hostel shall be made by the governing body or by any authority to whom such body may have delegated the power and all such appointments shall be subject to the approval of the Syndicate.

6. Any bodies or persons who wish that a hostel maintained or managed by them should be recognised by the University shall apply to the Syndicate for recognition and shall supply such information as the Syndicate may require. The Syndicate after such inquiry as it may deem necessary shall decide as to whether or not recognition is to be granted. Provisional recognition may be granted by the Syndicate on certain conditions, and failure to fulfil the conditions laid down shall entail the lapsing of the recognition.

7. The Syndicate shall have power to prescribe such general or special conditions for recognition as it may deem necessary and to suspend or withdraw the recognition of any hostel which may not be conducted in accordance with the conditions prescribed, provided that no action shall be taken without affording the management of such hostel an opportunity of making such representation as it may deem fit.

**Act and Statute.  
Conditions for  
recognition**

8. The Syndicate shall hold periodical inspections of all hostels, and may order a special inspection of any hostel to be made whenever it considers it desirable to do so and shall take such action on the report as it deems fit.

## CHAPTER XX (Statutes)

### UNIVERSITY PROFESSORSHIPS, READERSHIPS AND LECTURERSHIPS: UNIVERSITY LECTURES.

1. The Senate shall have power to determine from time to time, after considering the recommendations of the Academic Council and the Syndicate, the subjects for which Professorships, Readerships, Lecturerships, or other teaching posts should be instituted and the several terms and conditions subject to which such Professorships, Readerships, Lecturerships or other teaching posts should be instituted.

2. The Senate shall have power to suspend or abolish any Professorship, Readership, Lecturership, or other teaching posts after report from the Syndicate and the Academic Council thereon.

3. Teachers of the University shall be of three classes; Professors, Readers and Lecturers. The duties of Readers and Lecturers shall be (a) to teach and (b) to engage in research. The duties of Professors shall include in addition to teaching and research the guidance and co-ordination of studies in their subjects in consultation and co-operation with the colleges.

4. It shall be open to the Syndicate to appoint Teachers of the University without salary to take part in University work in their respective subjects.

5. The Syndicate shall have power, upon sufficient cause shown and after due investigation, by a resolution approved of by not less than two-thirds of the members of

the Syndicate, to suspend any Teacher of the University from office and from the emoluments thereof in whole or in part for any period not exceeding one year, or to require him to retire, or to deprive him of office, and during the suspension of any teacher to make provision for his work; provided no such sentence of suspension, etc., shall have effect until approved by His Excellency the Chancellor.

#### A. FULL TIME TEACHERS OF THE UNIVERSITY.

##### *General*

6. Full-time Teachers of the University shall be selected for appointment by a Committee consisting of the Vice-Chancellor, the Chairman of the Board of Studies concerned and four persons who are experts in the subject in which the appointment is to be made nominated by the Syndicate, provided, however, it shall be competent for the Syndicate to exclude from the Committee any of the above persons, who subsequently happens to be also an applicant for the post in connection with which the Committee has been constituted.

7. Except in the case of experienced men who have already gained distinction in their subject and who are being appointed as Professors, appointments shall be in the first instance for a term of three years and shall be subject to confirmation at the end of that period. Thereafter appointments shall be permanent, subject to an age limit which shall ordinarily be 55 years and subject to the provisions of Law 5.

8. The salary of a Professor shall be not less than Rs. 750 and not more than 1,000 per mensem, of a Reader not less than Rs. 400 and not more than Rs. 600 per mensem, and of a Lecturer not less than Rs. 150 and not more than Rs. 300 per mensem.

9. Nothing in Laws 7 and 8 shall prevent the establishment in special cases of short term appointments with special arrangements as regards salary.

**Conditions of service** 10. A paid Teacher of the University shall not engage in remunerative work other than that of his office without the express permission of the Syndicate.

**Provident Fund** 11. A Provident Fund shall be established for the benefit of the full-time Teachers of the University, on such conditions as may be prescribed, to which they shall contribute  $6\frac{1}{2}$  per cent. of their salaries monthly, and to which the University shall contribute an equal amount.

**Teachers to remain in Madras during term time** 12. Teachers of the University shall be required to live in Madras except during the vacation time and during ordinary or combined leave. Permission to leave Madras, during term time may be granted by the Syndicate or in a case of urgency by the Vice-Chancellor.

**Holidays and Vacations** 13. Full-time Teachers of the University shall be entitled to a summer vacation of two months from the 15th of April to the 15th of June and all gazetted holidays in addition to those fixed by the Syndicate.

**Power to grant leave** 14. The Syndicate shall have power to grant leave to Teachers of the University and to pay leave allowances, in accordance with such rules as may be prescribed.

*Leave and leave allowances.*

**Leave and leave allowances** 15. Leave cannot be claimed as of right; and when the exigencies of the University so require, discretion to refuse or revoke leave of any description is reserved to the authority empowered to grant it, viz., the Syndicate.

16. Casual leave may be granted for not more than ten days at a time, including holidays or fifteen days in all in an academic year.



17. Ordinary leave on half salary will be earned by a teacher of the University at the rate of one month for every academic year, including the summer vacation, with the privilege of accumulating such leave upto a maximum period of six months.

18. Ordinary leave may be combined with the vacation, but the combined leave shall not exceed six months in all.

19. The Syndicate may grant study leave to University teachers as occasion arises, on such terms as may to it seem necessary in each case.

20. Salary during leave will be paid in rupees in India, or at the current rate of exchange in London when the leave is taken out of India.

21. Leave not earned may be granted to a teacher subject to the following conditions:—

(a) On medical certificate on half pay up to a maximum period of 2 years.

(b) Otherwise than on medical certificate for not more than three months at any one time, and one year in the whole service, without allowances.

### *Professors.*

22. It shall be the duty of a University Professor, as the Syndicate may direct, to deliver lectures, to conduct classes, to engage in research and do any other academical work related to the subject of his chair.

#### **Duties**

The Registrar shall request the Boards of Studies to submit to the Syndicate by the 31st March each year recommendations as to any course of lectures to be delivered by University Professors.

23 It shall be the duty of a University Professor to direct and supervise the work of research students in branches of knowledge related to the subject of his chair.

24. A University Professor shall, if so required, advise the Academic Council, the Council of Affiliated Colleges or the Syndicate with regard to any University course of study or examination or on other matters relating to the subject connected with his chair.

*Readers and Lecturers.*

25. In a department in which there is a University Professor, Readers and Lecturers shall work under the direction of the Professor concerned with the subject, and shall assist him in the performance of his duties as defined in Laws 22, 23 and 24 of this Chapter. In Departments in which there is no Professor, a Reader shall be the head of the Department and the Lecturers, if any, shall assist him and work under his direction.

**Duties** 26. The special duties of the holders of particular posts shall be such as may be prescribed.

27. Part-time Teachers of the University shall be appointed only for special reasons, shall ordinarily be chosen from amongst the members of the staffs of the Constituent and Affiliated Colleges and shall perform such duties as may be assigned to them.

28. They shall be appointed for such periods and paid such salaries as may be fixed in each case, regard being had to the grade of the teacher and to the amount of time he is to devote to the work of the University. They shall be entitled to a summer vacation of two months from the 15th of April to the 15th of June and all gazetted holidays in addition to those fixed by the Syndicate.

*University Lectures*

29. The Syndicate shall have the power in consultation with the Boards of Studies to make from time to time arrangements for lectures or courses of lectures on such subjects as the Syndicate may select.

## CHAPTER XXI (Statute).

## INSTITUTE OF ORIENTAL RESEARCH

1. Notwithstanding anything contained in Chapter XX of the Laws governing the appointment, salaries, and duties of Teachers of the University, it shall be competent for the Syndicate, after consultation with the Committees appointed for each Section of the Scheme, to appoint persons with salaries as hereunder—

*Dravidian Section—*

1. A Director on Rs. 400 per mensem.
2. Four Readers—one for each of the four Dravidian Languages—on Rs. 150 per mensem.
3. Six Fellows—two for Tamil, two for Telugu, one for Kanarese and one for Malayalam—on Rs. 100 per mensem.

*Sanskrit Section—*

1. A Professor on Rs. 400 per mensem.
2. Two Fellows on Rs. 100 per mensem.

*Islamic Section—*

1. A Senior Reader for Arabic on Rs. 150 per mensem.
2. A Junior Reader for Persian or Urdu on Rs. 100 per mensem.

All persons appointed under this scheme shall be deemed to be full-time Teachers of the University for the purposes of Laws 13—21 of Chapter XX.

2. It shall be competent for the Syndicate after Statute considering the recommendations of the Award of Student-ships Heads of Sections or Sub-Sections in the Oriental Research Institute and of the Boards of Studies concerned to award Studentships to eligible candidates who have passed either a Degree Examination or an Oriental

Title Examination of this University, or any other examination approved by the Syndicate, in the language or languages in which the applicants desire to undertake research.

3. Applications for research studentships should be submitted to the Registrar so as to reach him not later than the 1st July of each year and should contain full particulars about the subject of research. The applications shall be referred in the first instance to the Heads of Sections or Sub-Sections of the Research Institute and subsequently to the Boards of Studies concerned for consideration and recommendation.

4. Studentships not exceeding 12 in number may be awarded annually and assigned as follows:—

Sanskrit	..2
Tamil	..3
Telugu	..3
Kanarese	..1
Malayalam	..1
Islamic	..2

5. Such research students shall be required to work at Madras, under the direction of the Head of a Section or Sub-Section of the Oriental Research Institute. The studentships shall be of the value of Rs. 50 per mensem and shall be tenable for one year from the date of commencement of the work after the award subject to renewal on report as to satisfactory progress. A student who fails to commence work within one month from the date of the award of the studentship will be liable to have the studentship cancelled.

6. The Laws in force in the case of Research Studentships in other subjects, Laws 8-12 of Chapter XXIII, shall also apply in the case of Research Students appointed under the preceding Laws of this Chapter.

## CHAPTER XXII (Statutes)

## INTER-COLLEGIATE AND UNIVERSITY LECTURES.

1. On the application of the heads of two or more Colleges the Syndicate may sanction the making of inter-collegiate arrangements for the delivery of courses of lectures jointly to the students of those colleges.

**Inter-collegiate lectures**

2. On the recommendation of the Academic Council the Syndicate may arrange courses of lectures to be delivered by the teachers of the University on subjects which form part of courses of instruction to be undertaken by any constituent college recognised in such subject or group of subjects.

**Lectures by Teachers of the University**

3. Attendance of students at courses of lectures under clauses 1 and 2 above for purpose of attendance certificates shall be deemed to be attendance put in at similar courses of lectures in the colleges to which they belong.

**Attendance at lectures**

## CHAPTER XXIII (Statutes)

## STUDENTSHIPS, FELLOWSHIPS AND GRANTS-IN-AID OF RESEARCH.

*Section A.*

1. Awards by the University in aid of Post Graduate study and Research will be of three kinds:—

- Awards to be of three kinds.**
- (i) Research Studentships.
  - (ii) Research Fellowships.
  - (iii) Grants-in-aid of Research.

*(i) Research Studentships*

2. Studentships not exceeding ten in number may be awarded annually to graduates or Diploma holders of the University in accordance with the Laws set forth below if candidates of sufficient merit present themselves.

**Number of studentships**

UNIVERSITY LECTURES AND STUDENTSHIPS.  
FELLOWSHIPS AND GRANTS-IN-AID OF RESEARCH.

3. The studentships which will be tenable only in India will be awarded to enable graduates or Diploma holders to undertake research in any subject in the Faculties of Arts, Science, Law, Medicine, Engineering and Agriculture.

**Tenability****Qualifications:**

4. No candidate shall be eligible for a studentship unless he has passed one of the following Examinations:—

- (a) B.A. Degree Examination in Honours,
- (b) B.A. Degree Examination in Group (vi)—South Indian Languages,
- (c) B.Sc. Degree Examination in Honours,
- (d) M. L. Degree Examination,
- (e) The M.B. & B.S. Degree Examination,
- (f) The B.E. Degree Examination,
- (g) The B.Sc. Ag. Degree Examination.
- (h) The Diploma in Economics Examination.
- (i) Oriental Titles Examination in both the compulsory (for Titles) and Optional (for Certificates of Proficiency) Divisions,

provided that where in any year all the ten studentships are not awarded, the Syndicate, may, in its discretion, award one or more studentships to any candidate or candidates who may not be graduates or Diploma holders of the University or be eligible as aforesaid.

5. A candidate for a studentship must send in his application in the prescribed form to the Registrar so as to reach him not later than the 1st July. No application received after the prescribed date will be accepted without the express sanction of the Syndicate. The candidate must state in his application the subject or matter he proposes to investigate, or the general nature of the research he proposes to undertake. He must also state where he proposes and has permission to undertake his research.

**Application**

The application shall be referred for consideration and report to the Board of Studies dealing with the subject which the student proposes to investigate.

6. The award of studentships will be made by the  
**Award** Syndicate on the report of the Boards of Studies; usually it will be in August.

7. The value of a studentship shall be Rs. 75 per  
**Value and** mensem, except in the case of Graduates  
**Tenure** in Medicine for whom the studentships  
 may be of the value of Rs. 100 per mensem. A studentship shall ordinarily be tenable for a period of two years from the date after the award on which the student commences work on his investigation. When in the opinion of the Syndicate the character of the investigation on which a student is engaged and the ability shown by him render such a course desirable, the Syndicate may continue his studentship for an additional year.

A student who fails to start work  
**Cancellation of** within one month from the date of the  
**award** award of his studentship will be liable to have the award cancelled.

8. Each student shall enter into a bond with the  
 University, the terms of which shall be  
**Bond to be executed** settled by the Syndicate, agreeing to engage diligently in research work during the tenure of his studentship and to refund to the University the amount of the studentship drawn by him in case of resignation before the expiry of its tenure, or of its forfeiture for misconduct or for unsatisfactory progress.

The Syndicate shall have power to waive the claim for refund in case of ill-health supported by a medical certificate or in cases where it considers sufficient cause has been shown to warrant exemption from repayment. No such case will be considered by the Syndicate until the student has submitted to it an account of his researches so far as they have progressed.

9. During the tenure of his studentship, the holder must engage diligently in his investigation. Arrangements will be made to report on his work and progress from time to time by competent authority. The Syndicate shall have power to deprive him of his studentship at any time if in its opinion his progress is not satisfactory.

10. Each student shall submit four printed or typed copies of a paper embodying the results and giving an account of his investigations to the Syndicate at the end of the tenure of his studentship. It shall, however, be open to him to submit to the Syndicate at a prior date to that stipulated the results of any completed portion of his research.

11. A student shall not, during the tenure of his studentship, be at liberty to publish any results of his investigation until he has laid them before the Syndicate in accordance with Law 10 of this Chapter and has obtained sanction to such publication.

12. Research Students and Research Fellows shall be entitled to a summer vacation of two months from the 15th of April to the 15th of June and all gazetted holidays in addition to those fixed by the Syndicate, and they may be given fifteen days' casual leave throughout the academic year.

(ii) *Research Fellowships.*

13. Fellowships not exceeding three in number, which shall be tenable only in India, may be awarded annually to graduates who produce evidence, preferably by work already published, of capability to advance knowledge by original investigation.

Teachers in Constituent and Affiliated Colleges of this University, who satisfy the above stipulation as to ability to undertake research, shall also be eligible for Research Fellowships.



14. The value of each Fellowship shall be determined by the Syndicate but shall not be less than Rs. 125 and shall not exceed Rs. 150 per mensem. A fellowship shall be tenable ordinarily for a period of one year from the date after the award on which the Fellow commences work on his investigation under the University, and may be renewed for an additional year if the Syndicate considers that the work of the Fellow merits an extension of the term.

15. Each Fellow shall be required to be a full-time research worker while holding the Fellowship.

16. Applications for Fellowships may be forwarded to the Registrar at any time during the year. The procedure adopted in respect of the grant of studentships shall *mutatis mutandis* be followed in respect of the grant of Fellowships.

(iii) *Grants-in-aid of Research.*

17. Grants-in-aid to cover expenses in connection with research may be given, at the discretion of the Syndicate, to persons who do not desire to become full-time research workers but are desirous of prosecuting definite research work in India.

GENERAL.

18. The Syndicate shall have power to defray out of University funds such expenditure incurred in connection with research as, in its judgment, is reasonable. The Syndicate will also make arrangements, where necessary, for affording facilities for the prosecution of research.

AWARD OF SCHOLARSHIPS FOR TRAINING IN NAVIGATION

*Section B.*

19. It shall be within the competence of the Syndicate to award Scholarships to candidates to enable them to undergo training in Navigation:—

1. The scholarships not exceeding two in number, shall be of the value of Rs. 60 per mensem and shall be tenable for a period of three years and shall be awarded, subject to the passing of the qualifying examination for admission and acceptance into the Indian Mercantile Marine Training Ship "Dufferin".  

<b>Number, Value and period of Scholarships</b>	
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2. The scholarships are available only for those students who are domiciled within the territorial jurisdiction of the Madras University, and are desirous of following a career in the Mercantile Marine, but who, on account of financial difficulties, cannot afford the expenditure required for the necessary training. They shall be awarded to those candidates only who have been declared eligible for admission to courses of study in this University.  

<b>Eligibility for the Scholarships</b>	
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3. A candidate for a scholarship must send in his application (in the prescribed form) to the Registrar, so as to reach him not later than the 31st August.  

<b>Date of Application</b>	
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4. Applicants must be between the ages of 14 and 16 years on the 15th January of the year of commencement of training, must be of sound constitution and of Indian domicile and must produce evidence of age and domicile and of the need for financial help as mentioned in clause 2 above. Candidates belonging to sea-faring communities will be given preference. The scholarships shall be awarded in the month of September.  

<b>Age of applicants</b>	
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**Duration of Scholarship\*** 5. The scholarships shall be awarded triennially and the continuance of any scholarship shall be subject to satisfactory report from the authorities of the Ship at the end of each year.

## **CHAPTER XXIV.**

### **\*UNIVERSITY LIBRARY.**

1. The Academic Council shall have power to control and manage the University Library or Libraries, to frame rules regarding its or their use and to appoint a Library Committee under the general control of the Academic Council to manage the affairs of the Library.

2. The affairs of the Library shall be managed by a Library Committee under the general control of the Academic Council.

3. The Library Committee shall consist of seven ordinary members who shall be elected by the Academic Council, and who shall hold office for two years but shall be eligible for re-election, and two *ex-officio* members, the Principal Librarian of the Conmemara Library, who shall be Chairman of the Committee, and the Librarian of the University Library who shall act as Secretary of the Committee.

The manner of election shall be as follows:—the subject shall be placed as an item of business on the agenda of the meeting of the Academic Council immediately prior to the expiration of the term of office of the Committee in office at the time in question. Members of the Academic Council shall be entitled to suggest nominees and these names will be published in the revised agenda. Voting shall take place at the meeting of the Academic Council and the election shall be conducted in such manner as the Vice-Chancellor may determine at the particular meeting.

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\*Vide Appendix XXX for the Rules of the Library.

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**Regulation Funds** 4. All the financial resources intended for the University Library shall be placed at the disposal of the Library Committee in a single consolidated account known as the "University Library Account."

**Act** 5. The Local Government shall contribute annually a sum, on such conditions as the Local Government may impose, towards the development of the Library.

**Regulation** 6. The Library Committee shall have power to incur expenditure from the University Library Account within the limits of an annual budget sanctioned by the Senate.

**Regulation** 7. All payments on account of the Library will be made by the Registrar, the charges being debited to the University Library Account.

**Regulation** 8. The Library Committee shall hold the amounts deposited by those who seek the privilege of borrowing books from the Library and shall have power to invest such amounts in any of the securities described in Section 20 of the Indian Trust Act, 1882, or to place the same on deposit in any bank approved in this behalf by the Government.

**Regulation Budget** 9. The Library Committee shall frame the annual financial estimates of the University Library and submit the same to the Syndicate in connection with the preparation of the budget to be placed before the Senate. A copy of the estimates may be placed before the Academic Council for information.

**Regulation Annual Report** 10. The Library Committee shall prepare the Annual Report of the University Library and submit the same to the Academic Council for consideration at the March Meeting and transmission to the Syndicate.

**Regulation  
Books and  
Periodicals** 11. The Library Committee shall have power to acquire the books, periodicals and other materials required for the Library in consultation with the Boards of Studies concerned. Books for the Sectional Libraries shall be purchased through the Library Committee on the basis of lists supplied by Heads of Departments, which will bear in mind any urgent demand for publications made by the Heads of Departments.

**Regulation** 12. The Library Committee shall have power to determine the Universities and other Institutions with which exchange relationship may be opened and to determine, subject to the financial control of the Syndicate, in consultation with the Boards of Studies concerned, the publications that may be exchanged.

**Regulation** 13. The Librarian shall be appointed by the Syndicate on the recommendation of a committee consisting of the Vice-Chancellor, the Chairman of the Library Committee and one other member of the Library Committee appointed by that committee for the purpose.

**Regulation  
Librarian** 14. The Librarian shall be in charge of the Library, shall give effect to the orders of the Library Committee, and shall perform such other duties as may be prescribed by the Library Committee.

**Statute** 15. The Syndicate shall have power to fix the clerical and menial establishments and the scales of salaries and allowances, and gratuities and pensions payable to them.

**Regulation  
Staff** 16. The Library Committee shall have power to appoint persons, subject to the approval and confirmation of the Syndicate, to the clerical and menial posts in the Library, and to suspend and dismiss any of them, provided such suspension or dismissal is reported immediately to the Syndicate.

The Library clerks in the Sectional Libraries shall be appointed by the Librarian, subject to the conditions laid down in the laws of the University and after consultation with the head of the department concerned.

**Regulation**  
**Rules of the**  
**Library**      17. The Library Committee may submit, for consideration by the Academic Council, draft rules for the Library and amendments thereto whenever found necessary.

**Regulation**      18. The Library Committee shall advise the Academic Council on all Library matters and may refer to the Academic Council any matter concerning the Library.

**Regulation**      19. The Library Committee shall have power generally to do all such other acts and things as may be necessary and desirable to further the objects of the Library, provided they are not inconsistent with the Laws of the University.

## CHAPTER XXV

### PROVIDENT FUND

**Statute**  
**Name of the**  
**fund**      1. The Fund shall be entitled the "Madras University Provident Fund." It is established for the benefit of all permanent and whole-time Teachers, Officers (other than the Vice-Chancellor and the Registrar), and Servants (excluding menials) of the University of Madras.

**Statute**  
**Definitions**      2. *Definitions.*—In these Laws, unless there is anything repugnant to the subject or context:—

(a) *Fund* means the Provident Fund established and maintained under these Laws;

(b) *Pay* includes pay, substantive and officiating, special pay, personal pay and leave salary;

(c) *Subscriber* means a person eligible to subscribe to the Fund under Law 3 and subscribing thereto;

(d) *Subscription* means the sum paid to the Fund by a subscriber under Law 5;

(e) *Contribution* means the sum paid to the Fund by the University under Law 6.

3. These Laws shall come into force from 1st April 1929. Subject to the provisions of Law 5 subscription to the Fund shall be compulsory on all permanent and whole-time Teachers, Officers (other than the Vice-Chancellor and the Registrar), and Servants (excluding menials) of the University of Madras, provided that no person shall be eligible to become a subscriber until he attains the age of 20 years or to continue as such after he attains the age of 60 years and provided also that any person already in the pensionable service of the University at the time the Provident Fund Laws come into force will be allowed the option of remaining under the pension rules to which he has hitherto been subject. The intention of exercising the option must be specifically declared in writing within six months from the date on which the Provident Fund Laws come into force. Every person who does not make such a declaration will become subject to these Laws. The option once exercised shall be final; and any person who had not so signified within the time prescribed shall be deemed to have chosen to come under the Provident Fund Laws. In the case of a person who is in the pensionable service of the University on the date of the introduction of the Provident Fund Laws and who does not elect to continue under the pension rules in force prior to that date, the University shall at the time of his admission place to the credit of his account an amount equal to that which it would have paid by way of contribution and interest thereon had the Provident Fund Laws been in force on the date of the commencement of his pensionable service in the University.

4. The Fund shall be made up of (a) subscriptions, (b) contributions and (c) interest on the subscriptions and contributions. The corpus and all monies of the Fund shall not be invested otherwise than in securities authorised by the Indian Trusts Act, 1882.

Statute  
Constitution  
of the Fund.

5. Subject to the provisions of clause (2) of this Law:—  
Statute  
Rate of  
subscription.

(1) (a) Every subscriber shall subscribe 6½ per cent. of his pay.

(b) No subscriptions shall be levied on a subscriber while he is on leave but a subscriber may elect in writing to subscribe to the Fund during leave with leave salary.

(2) A person employed on probation may elect to subscribe to the Fund during the term of probation. The amount so subscribed will be credited to his account. Should he be confirmed at the expiry of his probationary period, such period shall count for purposes of contribution by the University to the Fund. If, however, his services are terminated at the end of the probationary period, he shall be paid back only his subscriptions and interest thereon.

(3) *Subscription.*—The subscription of each subscriber shall be deducted month by month from his pay and credited to his account. It shall be considered as paid to the Fund on the first day of the month following that in respect of which the pay is due.

Statute  
Recovery of  
subscription.

6. *Contribution.*—Except in the cases contemplated in Law 5 (2) the University shall contribute to the account of each subscriber an amount equal to that subscribed by him under Law 5 and such contribution shall be considered as paid to the fund on the day on which the subscription is deemed as paid to the fund.

Statute  
Rate of  
contribution

7. (a) The account of a subscriber shall show:—  
Statute  
Accounts.



- (1) The amount of his subscriptions with interest thereon :
- (2) The amount of the contributions with interest thereon :
- (3) Forfeiture, if any, under Laws 8 and 12 (2) ; and
- (4) Monies, if any, debited against such account.

Statute  
Rate of In-  
terest.

(b) Interest on subscriptions and contributions:—

- (1) Compound interest at 4 per cent. or such higher rate per annum as may be decided upon from time to time by the Syndicate shall be allowed on the subscriptions and contributions less the amount of advance, if any, remaining unpaid.
- (2) In the event of resignation or retirement of a subscriber, interest shall be calculated up to the date of his resignation or retirement. If a subscriber proceeding on leave preparatory to retirement desires to close his Provident Fund Account, interest shall be payable only up to the date of application for such closing of account.
- (3) In the event of the death of a subscriber, interest shall be calculated up to the date of payment to the nominees or legal heirs of the deceased, provided, however, no interest shall be paid for any period exceeding 6 months from the date of his death.

8. (a) Right in respect of subscriptions and interest thereon:—In the event of a subscriber ceasing to be in the employ of the University or of his death, the Syndicate shall, subject to any deduction to be made on account of all sums due from him to the University or the Fund, pay to the person entitled thereto the amount of subscription and the interest thereon standing to his credit on the date of his ceasing to be in such employ or his death together with, in the case of death, interest for such further period as may be allowable under Law 7.

Statute  
Right re-  
garding sub-  
scription.

(b) Right in respect of contributions and the interest

Statute . thereon :—  
Right regard-  
ing contri-  
butions.

- (1) A subscriber shall not be entitled to receive the contributions and the interest thereon, if he is dismissed from the University service.
- (2) The contribution and the interest thereon shall be payable in full in the following cases:—
  - (a) If the subscriber retires after completing 15 years' service in the University,  
*or*
  - (b) If he retires on account of certified incapacity, such incapacity having arisen from causes beyond his control,  
*or*
  - (c) If his services are terminated as the result of a reduction in the establishment of the University or of abolition of his post,  
*or*
  - (d) If he dies.
- (3) Unless the Syndicate grants for special recorded reasons the contributions and the interest thereon in full to a subscriber whose service to the University is 10 years or more but less than 15 years, his share of the contributions and interest thereon shall be calculated according to the following table:—

On the completion of:—

10 years' service	...	10/15ths.
11 " "	...	11/15ths.
12 " "	...	12/15ths.
13 " "	...	13/15ths.
14 " "	...	14/15ths.

The amount payable under this Law shall be subject to any deduction to be made on account of all sums due by the subscriber to the University or the Fund.

(4) For the purpose of this Law:—

(a) “Service” includes time spent on duty and on leave with leave salary

(b) Service shall be deemed to commence—

i. in the case of a subscriber who joins the service of the University after the introduction of these Laws, from the date of his admission to the Fund;

ii. in all other cases, from the date of commencement of his permanent or pensionable service.

9. Whenever a subscriber shall have forfeited the whole or part of the contributions with interest thereon, the amount so forfeited shall be credited to the head “Miscellaneous.”

**Statute  
Forfeiture  
of contribu-  
tion.**

10. Each subscriber shall, on admission to the Fund, fill in and sign the “Form of Declaration” appended to these Laws. A register shall be maintained in which the names of all nominees shall be entered. A subscriber shall be at liberty to change his nominee or nominees, but only the person or persons last appearing entered in the said register shall be recognised by the Fund and the receipt granted by such nominee or nominees shall be a complete discharge of all liabilities in respect of the Fund.

**Statute  
Nominees.**

11. A subscriber may nominate a person or any number of persons as his nominee or nominees and if he nominates more than one person he must enter in the Form of Declaration the proportion in which the amount payable shall be distributed among them. The Syndicate shall have the right to refuse to accept the nomination of any person without assigning any reason for such refusal and the subscriber shall thereupon register some other person approved by the Syndicate. A subscriber shall ordinarily

**Statute  
Declaration.**

nominate his wife or wives or his children, natural or adopted.

12. (1) The University will not be bound by, nor will it recognise any assignment or encumbrance executed or attempted to be created which affects the disposal of the amount standing to the credit of a subscriber who dies before retirement.

**Statute  
Forfeiture**

(2) The subscriptions and interest thereon of a subscriber are not liable to forfeiture on dismissal or on conviction by a criminal court, except for an offence for which the penalty of forfeiture of the offender's property is ordered by a competent Court of Law.

13. When a subscriber proceeds on leave preparatory to retirement, his Provident Fund Account may, on application made in writing by him, be closed at any time between the date of commencement of such leave and the date of retirement.

#### 14. Advances from the Fund—

(1) The Syndicate may, at its discretion, grant to a subscriber an advance of a sum which does not exceed the amount of the subscriptions and interest thereon standing to his credit at the time of making such advance nor exceeds his three months' pay for any of the following purposes:—

**Statute  
Payment of  
Advances.**

(a) to pay for the passage by land or water of himself or any member or members of his family for any necessary purpose;

(b) to pay the expenses incurred in connection with the illness of himself or a member or members of his family;

(c) to pay the expenses in connection with marriages, funerals, or ceremonies which by the religion of the subscriber it is incumbent upon him to perform and in connection with which it is obligatory that expenditure should be incurred;

(d) for such other purposes as the Syndicate may consider reasonable.

- (2) Advance shall (unless the subscriber makes earlier repayment of the sum) be recovered in 24 monthly instalments deducted from the subscriber's pay commencing from the first payment of a full month's pay after the advance is granted, but no recovery shall be made from a subscriber while he is on leave of any kind except with his own consent.
- (3) When an advance has already been granted to a subscriber, a subsequent advance shall not be granted to him, except for strong reasons to be approved by the Syndicate until at least one year has elapsed since the last advance was completely repaid.
- (4) For the purpose of this Law, the family of a subscriber shall mean his wife, his natural or adopted children, his parents, sisters or minor brothers wholly dependent on him.
- (5) When an advance is repaid in 12 instalments or less an additional instalment representing interest equivalent to 3 per cent. (or a proportionately higher rate when the rate of interest allowed on subscriptions and contributions exceeds 4 per cent.), of the amount of the advance should be paid in the month following that in which the last instalment is paid. Similarly an additional instalment equivalent to 6 per cent. (or a proportionately higher rate when the rate of interest allowed on subscriptions and contributions exceeds 4 per cent.) of the total amount of advance should be paid when the advance is repaid in more than 12 instalments. The interest as calculated above shall be placed to the credit of the account of the subscriber.

#### 15. Accounts:—

- (1) The account of every subscriber shall be made up yearly to the 31st March.

Statute  
Accounts.

- 
- (2) Each subscriber shall, at the close of every year, be furnished with a statement of his account showing the amount of his subscriptions and interest thereon the amount of the contributions and interest thereon standing to his credit and the amount of advance outstanding, if any.
- (3) The University shall deposit each year in the Fund an amount to be fixed with reference to the charges to be met by the University in payment of liability to the Fund.
- (4) The following account books shall be maintained in the prescribed forms which are appended to these Laws:—
- (i) Provident Fund Ledger.
  - (ii) Register of Subscribers.
  - (iii) Cash book.
  - (iv) Abstract of Provident Fund Institution.
  - (v) Register of temporary withdrawals. (Advances).
  - (vi) Investment Register.
- (5) (a) All interest earned on the Securities, etc., in a year over and above that which is payable to the subscribers, shall together with the contribution forfeited under law 8, discounts on investments, if any, and other miscellaneous receipts, be credited to the head "Miscellaneous."
- (b) If in a particular year, the interest earned on Securities, etc., is less than the amount payable to Subscribers, the difference together with *prêmia* on investments, if any, shall be debited to this head.

- (c) All charges incurred during the year on establishments, etc., shall be debited to this head.
- (d) The balance available under this head will lapse to the University after reserving a sum equal to the probable amount of the debits referred to in clause (c) for the next three years.
- (e) In case the difference referred to in clause (b) above is not covered by the balance under this head, the excess shall be adjusted from the funds of the University.

16. Save as otherwise provided for in Law 20, these Laws and any amendments thereto shall be binding on every subscriber and every person deriving title from him.

**Statute Interpretation.** 17 *Interpretation.*—The power of interpreting these Laws and of deciding cases of dispute or doubt is vested in the Syndicate and its decision shall be final.

**Statute Management** 18. The Syndicate may, from to time, issue general or special instructions as may be necessary consistent with the Laws for the time being in force as to:

- (a) conduct of the business of the Fund;
- (b) any other matter relating to the Fund.

**Statute Audit** 19. When the account of a subscriber is closed, the amount payable to him under these Laws shall be audited by the University before payment.

**Statute Alterations in the Laws.** 20. The power of amending, or adding to or repealing these Laws or any of them shall vest in the Senate. The subscribers in service on the introduction of such changes shall, however, except as regards changes affecting the rate of interest payable on subscriptions and contributions, have the option to remain under the Laws in force prior to the introduction of such changes,

SUBSCRIBER No.

**The Madras University Provident Fund.**

## FORM OF DECLARATION.

(For\*

subscriber.)

I hereby declare that in the event of my death the amount at my credit in the Provident Fund shall be distributed among the persons mentioned below in the manner shown against their names.

The amount due to nominee who is a minor at the time of my death should be paid to the person whose name appears in column 4.

1	2	3	4	5
Name and address of the nominee or nominees.	Relationship with the subscriber.	Whether major or minor, if minor, state his age.	Name and address of the person to whom payment is to be made on behalf of the minor.	Sex and parentage of person mentioned in column 4.

\* Here state married or unmarried.

Two witnesses to Signature.

STATION.

Date,

*Signature of Subscriber.*



## Provident Fund Form No. 1.      Provident Fund Ledger.

Name.      Official Designation.      Account Number.

[Notes—1. The subscription and contribution accounts of a subscriber transferred from another local body should be entered in columns (2) and (7) respectively, in the line for the month in which the accounts are transferred. 2. Interest on temporary withdrawals paid under Law 14, should be shown in column (3).]

SUBSCRIPTION ACCOUNT.						Contri- bution Account.	REMARKS.
19	Deposits at 6½ % of the pay.	Refunds of with- drawals.	Total.	With- drawals.	Monthly balance on which interest is calculated.		
-19	2	3	4	5	6	7	
1							
April	...						
May	...						
June	...						
July	...						
August	...						
September	...						
October	...						
November	...						



## Provident Fund Form No. 2.

## Register of Subscribers to the \_\_\_\_\_ Provident Fund Institution and their Nominees.

SUBSCRIBERS.										NOMINEES.	
Serial No.	Name in Full.	Father's Name.	Address.	Date of Birth by the Christian Era.	Caste, Race or Religion.	Date of Admission.	Age on Date of Admission.	Name of Appointment held on date of admission.	Pay of Post	No. and date of Heirship Certificate. (To be filed separately)	
1	2	3	4	5	6	7	8	9	10	11	

contd.

NOMINEES.										Remarks.	
Serial No.	Name in Full.	Relationship to Subscriber.	Age.	Occupation.	Address.	Sums due in what Proportion Payable.	If the Nominee is a Minor, Name and Address of Guardian.	Name and address of witnesses attesting the Certificate.	Initials of the Registrar.		
12	13	14	15	16	17	18	19	20	21	22	





## Provident Fund Form No. 4.—(contd.)

CREDITS.					Total.		DEBITS.			CLOSING BALANCE.		Remarks.					
RECEIVED IN		Total of columns 7 to 18.			Interest on Subscription, etc.		Interest on contribution, etc.		Contribution for the current year.		Subscription Account (column 5, 19 and 20).		Contribution Account (column 6, 21 and 22).				
January.	February.	March.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Rs.A.P.	Rs.A.P.	Rs.A.P.	Rs.A.P.	Rs.A.P.	Rs.A.P.	Rs. A.P.	Rs. A.P.	Rs. A.P.	Rs. A.P.	Rs. A.P.	Rs. A.P.	Rs. A.P.	Rs. A.P.	Rs.A.P.	Rs.A.P.	Rs.A.P.	







## Provident Fund Form No. 6.

## Register of Securities and fixed deposits.

Serial Number.	Date of investment, i. e., purchase of security or the date of deposit, etc., as the case may be.	Particulars of investment and in case of Government Securities number and date of payment.	Amount—face value.	Rate of interest.	Initials of the Registrar.	Date of recovery of interest and adjustment in accounts.	Amount of interest recovered and adjusted in accounts.	Initials of the Registrar.
1	2	3	4	5	6	7	8	9
			Rs. a. p.				Rs. a. p.	

*Note.*—When any sum is withdrawn from investment in fixed deposits or any Government or other Securities are sold, the particulars of withdrawal or sale, as the case may be, should be noted in red ink across columns 1—3 of this register and the face value deducted from the total in column 4 and the balance of investment entered. If no balance remains, “account closed” should be written across the page.

## CHAPTER XXVI (Statutes)

## Officers and Servants of the University.

## THE REGISTRAR.

**Appointment of Registrar** 1. The Registrar shall be appointed by the Syndicate subject to the confirmation of the Senate.

**Tenure of office and re-appointment** 2. The tenure of the office of Registrar shall be limited to five years, in the first instance, but the same individual shall be eligible for re-appointment. In the event of his being re-appointed his service from the date of his first appointment shall qualify for pension or gratuity.

**Power of Syndicate to dispense with Registrar's services** 3. It shall be in the power of the Syndicate to dispense with the services of the Registrar at any time on payment to him of six months' salary and it may at any time discharge him from its service without notice or compensation in the event of misconduct on his part or of a breach by him of any of the conditions on which he was engaged. In case the Registrar should wish to resign his office, he shall give six months' notice of his intention to resign.

**Limit of service** 4. The Registrar shall not continue to hold the office after the completion of twenty-five years of service or the attainment of fifty-five years of age whichever be the earlier event, unless on the recommendation of the Syndicate the Senate shall have extended his tenure of office for a specified period.

**Salary and Allowances** 5. The salary of the Registrar shall be Rs. 600 per mensem rising by annual increments of Rs. 50 per mensem to Rs. 800. If at the completion of his term of 5 years a Registrar be re-engaged his salary be Rs. 900 per mensem increasing by an increment of Rs. 100 in the next succeeding year to Rs. 1,000 per mensem, and

thereafter increasing by annual increments of Rs. 50 per mensem to a salary of Rs. 1,500 per mensem.

6. The Registrar shall devote his whole time to the duties of his office, and shall not absent himself from his duties without the permission of the Syndicate.

Conditions  
of service

\*7. The Syndicate may grant to the Registrar leave of absence for one month on full pay for each eleven months of completed service, or for an accumulated period not exceeding four months in five years. The Syndicate may also grant him leave of absence on half pay—to which may be added a period of accumulated leave on full pay not exceeding three months—for a period not exceeding eight months in five years. Such leave on half pay shall not, except in the case of leave on medical certificate, exceed one-and-a-half months for each completed year of service.

Leave

In respect of leave on full pay the provisions of Chapter XII of the Civil Service Regulations, Fourth Edition, or of the corresponding Chapter in subsequent editions shall otherwise, so far as may be, apply.

Duties of Registrar

8. It shall be the duty of the Registrar—

(a) to be the custodian of the records, common seal, and such other property of the University as the Syndicate shall commit to his charge;

(b) to act as Secretary to the Syndicate and to attend all meetings of the Senate, Academic Council, Council of Affiliated Colleges, Faculties, Syndicate and any Committees appointed by these authorities, and to keep minutes thereof;

(c) to conduct the official correspondence of the Syndicate and the Senate;

(d) to issue all notices convening meetings of the Senate, Academic Council, Council of Affiliated Colleges, Faculties, Syndicate, Boards of Studies, Boards of Examiners, and any Committees appointed by these authorities;

\* Old Regulation not revised.

(e) to perform such other work as may be from time to time prescribed by the Syndicate, and generally to render such assistance as may be desired by the Vice-Chancellor in the performance of his official duties.

Gratuity or Pension

9. The Syndicate may grant to the Registrar a gratuity or pension regulated as follows:—

(a) After a service of less than ten years, a gratuity not exceeding one month's emoluments for each completed year of service.

(b) After a service of not less than ten years, up to twenty-five years, a pension not exceeding one-sixtieth of the average emoluments (*i.e.*, the average calculated upon the last three years of service) multiplied by the number of years of completed service. The pension shall in no case exceed Rs. 5,000 per annum.

10. After fifteen years of approved service and the attainment of fifty years of age the Registrar shall be entitled to a pension calculated as in Regulation 9 (b) of this Chapter. The payment of this pension shall be made in accordance with the provisions of Article 934 of the Civil Service Regulations, Fifth Edition.

Service entitling to pension

11. The Registrar, shall, on application previously made for the purpose of fixing a convenient hour, arrange that any member of the Senate, of the Academic Council, of the Council of Affiliated Colleges, of the Syndicate, or of a Faculty, shall have access to the proceedings of the Senate, Syndicate, of the Academic Council, of the Council of Affiliated Colleges, or Faculty, respectively, and to any documents connected with such proceedings.

Access to University records

12. No officer or servant of the University shall be a member of the Syndicate.

13. No salaried officer or servant of the University shall accept nomination or election as a member of any of the University authorities.

## CHAPTER XXVII.

## ADMISSION TO COURSES OF STUDY AND EXAMINATIONS.

1. The conditions under which students may be admitted to the Degree or Diploma Courses and to the Examinations of the University shall ordinarily be those laid down in the regulations for the time being.

Ordinance  
Admission to  
courses of study  
and examinations

2. No candidate shall be admitted to any examination until he has been registered. A candidate shall be registered afresh on each occasion on which he presents himself for examination and no candidate shall be registered until he has paid the fee prescribed.

Ordinance

3. No candidate for examination shall be entitled to a refund of any fee he may have paid, but the Syndicate may at its discretion grant such a refund in any particular case or class of cases.

Ordinance  
Refund of fee

4. Each candidate for an examination shall produce such evidence as the Syndicate may direct of having previously passed the qualifying examination prescribed by the Laws, if any. He shall also unless otherwise exempted, produce in the prescribed form the necessary certificate or certificates required by the Laws of the University.

Ordinance  
Qualification of  
candidates

5. The Syndicate shall have the power to exempt from the production of the prescribed annual certificate of attendance for the Matriculation Examination (a) Candidates who hold completed School-leaving Certificates issued under the authority of the Government of Madras or such other authority as may have been accepted by the Syndicate, provided that their appearance for the Secondary School-leaving Certificate Examination was at least three years prior to the date of their proposed appearance at the Matriculation Examination, (b) Candidates who, during the previous three years, have been edu-

Ordinance  
Exemption from  
attendance certificates

cated privately or in schools outside the territorial limits of the Madras University as defined in the Indian Universities Act, 1904, provided that in each case they produce satisfactory evidence that they are of good character and that they have received suitable instruction.

Applications for exemption under this Ordinance must be forwarded so as to reach the Registrar before the 1st October preceding the examination.

6. In the case of a student who has failed to keep  
Ordinance during the year three-fourths of the attendances prescribed by the institution of which he is a member and is therefore unable to produce his annual certificate of attendance, the Syndicate may grant exemption from its production provided that—

- (1) the shortage of attendance does not exceed five days;
- (2) the case is recommended by the Principal of the College of which the student is a member;
- (3) the Syndicate considers that the reasons given for failure to secure the prescribed attendance are satisfactory.

7. The Syndicate shall have the power to grant  
Ordinance exemption from the production of an annual certificate of attendance for the course in Part II of the Intermediate course, or in one of the languages in Part III Group B of the Intermediate course or in one language alternative in Groups (iv) and (v) or in one of the languages in Group (vi) under Part II of the B.A. Degree courses to a student studying in a college in which the language in respect of which exemption is sought is not taught, provided that the Syndicate is satisfied—

- (1) as to the reasons assigned by the student for not studying in a college where the language in question is taught, and
- (2) as to the arrangements made for instruction being received by the student in that language.

8. The Syndicate shall have the power to grant exemption from the production of the first year certificate of attendance for Part III of the Intermediate Course to students who, having passed the Intermediate Examination with one set of optional subjects under Part II of the Old Course or Part III of the New Course, desire to reappear for the Examination in Part III of the course presenting a new set of optional subjects, provided that the Syndicate is satisfied that the course prescribed in the new set of subjects selected has been covered by them, and that they have attended a college for a further period of not less than one year.

Ordinance 9. The Syndicate shall have the power to grant exemption from the production of the first year certificate of attendance for Part II of the B.A. Degree Examination, to students who, having passed Part I, and failed in Part II on at least two occasions in one set of optional subjects, desire to present a new set of optional subjects under Part II, provided that the new subjects do not require a course of laboratory training.

Ordinance 10. The Syndicate shall have the power to grant exemption from the production of either or both of the annual certificates of attendance required by candidates for the Oriental Title Examinations, provided that the candidate—

- (1) is at the time of the examination at least twenty-five years of age; and
- (2) is certified by the head of an approved institution, or by a member of the Board of Studies dealing with the subject or language offered for the examination or by a Mahamahopadhyaya or a Shamsul-ul-ulama or any other competent scholar recognised by the Syndicate, to be qualified by his attainments to appear for the examination.

Applications for exemption under this Ordinance must be forwarded so as to reach the Registrar before the 1st October preceding the examination.

11. The Syndicate shall have the power to grant  
 Ordinance exemption in the case of a candidate for  
 the Final M.B. & B.S. Degree Examination who having failed in the examination is unable to produce an additional certificate of attendance for six months in one or more subjects of the examination in accordance with the Regulations, provided that he is recommended for exemption by the Principal of a Constituent or an Affiliated Medical College.

12. The Syndicate shall have the power to grant  
 Ordinance exemption from the production of the  
 required attendance certificates, to candidates for the Degree of Bachelor of Arts who have passed at least one of the Divisions of the B.A. Degree Examination under the old By-laws and permit them to appear [in accordance with the provisions of the Transitory Regulations] for the B.A. Degree Examination under the New Regulations in the Parts or Groups corresponding to the Divisions of the B.A. Degree Examination under the old By-laws which they have not passed.

13. The Syndicate shall have the power to grant  
 Ordinance exemption from the production of an  
 annual certificate of attendance (1) to students who have been attending classes opened in a college with the sanction of the Syndicate pending recognition or affiliation, (2) to students who are unable to obtain the necessary attendance certificate owing to the college of which they are members having to close for a time for reasons recognised by the Syndicate as satisfactory.

Provided however the Syndicate shall have the power to waive the prescribed exemption fee in the case of students in Colleges which were permitted in 1926-27 and 1927-28, to open classes in certain subjects under the remodelled Intermediate Courses pending affiliation or recognition under Sub-Clause 1 of this Ordinance.

14. The Syndicate shall have the power on the recommendation of the Academic Council to  
 Ordinance exempt by a special order and on such conditions as the Syndicate may think fit a candidate for a



University Examination from being an enrolled member of a constituent or of an affiliated college.

Ordinance  
Exemptions permanent 15. Orders of exemption granted under this Chapter shall be permanent.

Ordinance  
Recognition of Examinations 16. The Syndicate shall have the power to recognise the examinations of other Universities which correspond to the Intermediate Examination of the University of Madras, as qualifying for admission to the B.A., B.Sc., B.A. (Honours), B.Sc. (Honours), M.B. & B.S., B.E., and B.Sc., Ag. courses of study in a constituent or an affiliated college.

17. The Academic Council shall have the power to recognise as qualifying for admission to courses of study leading to Degree Examinations other than those specified in Ordinance 16 of this Chapter, the degrees of other Universities.

## CHAPTER XXVIII.

### GENERAL RULES RELATING TO EXAMINATIONS.

Ordinance  
Place of Examinations 1. (a) All examinations shall be held in Madras and in such other places as may be appointed by the Syndicate. A list of centres at which examinations will be held shall be published annually in the Gazette in the preceding April.

(b) When there is more than one centre for a written examination question papers shall be given out to candidates on the same day and at the same hour in every centre.

Ordinance  
Gazetted holidays *dies non* 2. Gazetted holidays shall be considered *dies non* for the purposes of the University Examinations.

Regulation  
Text-books and syllabuses 3. The text-books to be prescribed and the syllabuses required by the Laws other than those detailed in the Laws shall be determined and notified from time to time by the Academic Council on the recommendation of the Boards of Studies.

**Regulation  
Standard of  
question papers** 4. The papers set in all examinations shall be such as a candidate of decided ability well prepared in a subject can reasonably be expected to answer within the time allotted.

**Regulation  
Religious belief** 5. No question shall be put at any University examination calling for a declaration of religious belief on the part of the candidate, and no answer or translation given by any candidate shall be objected to on the ground of its giving expression to any particular form of religious belief.

**Ordinance  
Conduct of examinations** 6. All examinations, except practical and *viva voce* examinations, shall be conducted by means of printed or written papers to be answered, except in the case of Vernaculars, in English unless otherwise stated therein.

**Ordinance and  
Act  
Duties of Examination Boards** 7. The Examination Boards shall report to the Syndicate the results of all examinations conducted or supervised by them, and the Syndicate shall publish lists of those candidates who have passed the examinations in accordance with the regulations.

**Regulation  
Manner of publication of lists of successful candidates** 8. In examinations other than those for Degrees in Law, Medicine, Engineering, Agriculture, and Commerce the names of all candidates obtaining Honours and of all candidates who are placed in the first class shall be published in the order of proficiency; the names of all other successful candidates shall be published in the order in which they were registered for examination, except in the case of the B.A. Degree Examination in which the names of candidates who pass the examination in the second class shall be arranged in the order of their proficiency as determined by the total marks obtained by each of the successful candidates in each Part of the Examination.

9. A certificate signed by the Registrar shall be given to each successful candidate at an examination other than an examination for a degree, title or diploma. The certificate shall set forth the date of the examination, the subject in which the candidate was examined, the class in which he was placed, and the subjects, if any, in which he gained distinction in accordance with the regulations.

Ordinance  
Pass certificates

Applications for certificates of having passed the Intermediate Examination shall reach the Registrar not later than the 1st September or 1st February succeeding respectively the March or September Examination. A fee of three rupees shall be charged for all certificates issued on applications received after that date.

10. A diploma under the seal of the University and signed by the Registrar shall be presented at a Convocation to each successful candidate at an examination for a degree, title or diploma. The diploma shall set forth the date of the examination, the subjects in which the candidate was examined, the class in which he was placed, and the subjects, if any, in which he gained distinction in accordance with the regulations.

Ordinance  
Diplomas

## CHAPTER XXIX (Ordinances).

### FEES.

Candidates for Examinations, Degrees and Diplomas shall pay the following fees:—

					Fees. Rs.
<b>I. Examination Fees:—</b>					
Matriculation Examination	..	..	..	..	15
<b>Intermediate Examination—</b>					
Whole Examination	..	..	..	..	25
Part I only	..	..	..	..	10

						Fees. Rs.
Part II only	..	..	..	..	..	8
Part III only	..	..	..	..	..	18
<b>B.A. Degree Examination—</b>						
First appearance—						
Whole Examination or either part	..	..	..	..	..	40
Subsequent appearance—						
Whole Examination	..	..	..	..	..	40
Either Part	..	..	..	..	..	25
<b>B.A. (Honours) Degree Examination—</b>						
Preliminary	..	..	..	..	..	15
Final	..	..	..	..	..	60
<b>Science Branches—</b>						
Subsidiary Subject	..	..	..	..	..	30
Main Subject	..	..	..	..	..	30
M.A. Degree	..	..	..	..	..	25
M.A. Degree Examination	..	..	..	..	..	60
Degree of Doctor of Philosophy	..	..	..	..	..	150
<b>B.Sc. Degree Examination—</b>						
Part I	..	..	..	..	..	15
Part II	..	..	..	..	..	36
<b>B.Sc. (Honours) Degree Examination—</b>						
Part I	..	..	..	..	..	15
Part II—						
Natural Science—						
Subsidiary Subject	..	..	..	..	..	30
Main Subject	..	..	..	..	..	30
Each other Branch	..	..	..	..	..	60
M.Sc. Degree Examination	..	..	..	..	..	100
Degree of Doctor of Science	..	..	..	..	..	150

							Fees. Rs.
<b>B.Sc. Degree in Agriculture—</b>							
Part I	..	..	..	..	..	..	25
One subject only	..	..	..	..	..	..	15
Part II	..	..	..	..	..	..	40
L.T. Degree Examination	..	..	..	..	..	..	20
<b>B.L. Degree Examination—</b>							
F.L. Examination	..	..	..	..	..	..	40
B.L. Examination	..	..	..	..	..	..	50
M.L. Degree Examination	..	..	..	..	..	..	100
LL.D. Degree	..	..	..	..	..	..	150
<b>M.B. &amp; B.S. Degree—</b>							
Pre-Registration Examination	..	..	..	..	..	..	30
One subject only	..	..	..	..	..	..	15
First M.B. & B.S. whole Examination	..	..	..	..	..	..	50
Part I only	..	..	..	..	..	..	15
Part II only	..	..	..	..	..	..	40
Separate subjects, each	..	..	..	..	..	..	15
Second M.B. & B.S. Examination	..	..	..	..	..	..	50
Ophthalmology only	..	..	..	..	..	..	15
Other subjects, each	..	..	..	..	..	..	20
Final Examination (whole)	..	..	..	..	..	..	60
Part I (Forensic Medicine) only	..	..	..	..	..	..	15
Part II only	..	..	..	..	..	..	50
Medicine or Surgery	..	..	..	..	..	..	20
Obstetrics and Gynaecology	..	..	..	..	..	..	15
M.D. or M.S. Degree Examination	..	..	..	..	..	..	150
<b>B.S.Sc. Degree Examination—</b>							
Part I	..	..	..	..	..	..	50
Part II	..	..	..	..	..	..	50
<b>B.E. Degree Examination—</b>							
F.E. Examination	..	..	..	..	..	..	30
B.E. Examination	..	..	..	..	..	..	50

	Fees. Rs.
<b>Oriental Title Examination—</b>	
Entrance test to Vidvan Course (Dravidian Main).	3
Preliminary .. .. .	12
Final .. .. .	12
Certificates of Proficiency .. .. .	10
Master of Oriental Learning .. .. .	50
Diploma in Economics .. .. .	30
Diploma in Modern European Languages, each subject.	12

**II. Other Fees—**

- |   |   |
|---|---|
| (a) For exemption from the production of attendance certificates .. .. .  | 5 |
| (b) For recognition of an examination of another University and of the S.S.L.C. Examination or European High School Examination conducted by bodies outside the jurisdiction of the University .. | 5 |
| (c) For scrutiny of an S.S.L. Certificate of a candidate who sat for the S.S.L.C. Public Examination in a previous year .. ..   | 3 |
| (d) for registration as a matriculate .. ..   | 2 |
| (e) For taking Degree at a Convocation—<br>Diploma fee .. .. .  | 3 |

**CHAPTER XXX.****DATES FOR PAYMENT OF EXAMINATION FEES AND SUBMISSION OF CERTIFICATES, DATES OF COMMENCEMENT OF EXAMINATIONS, AND DATES OF PUBLICATIONS OF RESULTS OF EXAMINATIONS.**

Ordinance  
Dates of Examinations, and dates of submission of applications and attendance certificates, and dates of publication of results

The latest dates on which fee for examinations shall be payable, and applications for admission thereto and certificates to be produced by candidates are to be submitted to the Registrar in the forms prescribed, the dates on which examinations shall begin, and the dates on which the results of the examinations shall be published at the Senate House shall be:—

Examinations.	Last date for payment of fees and for sub- mitting applica- tions.	Last day for submitting certificates.
Matriculation... ..	December 20 ...	March 16 ...
Intermediate ...	{ December 15 ...	March 9 ...
	{ or July 15 ...	{ or August 19 ...
B.A. Part I ...	{ December 15 ...	March 9 ...
	{ or July 15 ...	{ or August 19 ...
B.A. Part II ...	{ December 15 ...	March 9 ...
	{ or July 15 ...	{ or August 19 ...
B.A.(Hons.) Preliminary	{ December 15 ...	March 9 ...
	{ or July 15 ...	{ or August 19 ...
B.A. (Hons.) Final ...	November 30 ...	March 9 ...
M.A. ... ..	Do. ...	...
M.A. in Research ...	December 1 ...	...
B. Sc.—		
Part I ...	{ December 15 ...	March 9 ...
	{ or July 15 ...	{ or August 19 ...
Part II ...	December 15 ...	March 9 ...
B.Sc. (Hons)—		
Part I ...	{ December 15 ...	March 9 ...
	{ or July 15 ...	{ or August 19 ...
Part II ...	November 30 ...	March 9 ...
M. Sc.—	December 1 ...	...
Ph. D. or D. Sc. ...	December 1 ...	...
B.Sc. in Agriculture—		
Part I ... ..	January 20 ...	March 19 ...
Part II ... ..	Do. ...	Do. ...

Date of commencement of examination.	Date of publication of results.
<p>4th Monday in March.</p> <p>4th Monday in March, or 2nd Monday in Sept.</p> <p>4th Monday in March, or 2nd Monday in Sept.</p> <p>Saturday following the 4th Monday in March, or the Thursday following the 2nd Monday in September.</p> <p>4th Monday in March, or 2nd Monday in Sept.</p> <p>4th Monday in March.</p> <p>Do.</p> <p>...</p>	<p>3rd Monday in May.</p> <p>3rd Monday in May, or 3rd Monday in October.</p> <p>4th Monday in May, or 3rd Monday in October.</p> <p>4th Monday in May, or 3rd Monday in October.</p> <p>4th Monday in May, or 3rd Monday in October.</p> <p>1st Monday in May.</p> <p>Do.</p> <p>...</p>
<p>4th Monday in March, or 2nd Monday in Sept.</p> <p>Saturday following the 4th Monday in March.</p> <p>4th Monday in March, or 2nd Monday in Sept.</p> <p>4th Monday in March.</p> <p>...</p> <p>...</p>	<p>4th Monday in May, or 3rd Monday in October.</p> <p>4th Monday in May.</p> <p>4th Monday in May, or 3rd Monday in October.</p> <p>1st Monday in May.</p> <p>...</p> <p>...</p>
<p>1st Monday in April.</p> <p>2nd Monday in April.</p>	<p>1st Monday in May.</p> <p>1st Monday in May.</p>



Examinations.		Last date for payment of fees and for submitting applications.		Last day for submitting certificates
L. T.	{	January 20 or July 15	... ... ...	March 19 or August 19
Law—				
F.L. and B.L.	{	January 20 or July 15	... ... ...	1st Monday in April or 3rd Monday in Sept.
M. L. ...	...	January 15	...	...
L.L.D. ...	...	December 1	...	...
*M.B. & B.S.—				
Pre-Registration Examination.	{	October 15 or April 15	... ... ...	{ Eight days before the date of Examination.
First and Second Examinations.	{	October 15 or April 15	... ... ...	Do.
Final Examination	...	Do.	...	Do.
M.D. or M.S.	...	January 15	...	January 15
Diploma in Midwifery (D.G.O.)	{	January 15 or July 15	... ... ...	January 15 or July 15
B.S.Sc.—				
Part I ...	{	December 1 or March 1	... ... ...	{ Monday of the week preceding the examination.
Part II ...	...	June 1	...	Do
Engineering	...	January 15	...	1st Monday of the fortnight preceding the examination.
Oriental Titles—				
Preliminary	...	November 30	...	March 9
Final ...	...	Do.	...	Do.
Optional Division for Certificates of Proficiency.		Do.	...	Do.
M.O.L. ...	...	December 1	...	...
Diploma in Economics...	...	January 20	...	March 19
Diplomas in French and German.		...	...	Monday of the week preceding the Examination

\* For dates of Examinations and publication of results under the old Regulations—*vide* Calendar pages 1-18.

Date of commencement of examination	Date of publication of results
<p>2nd Monday in April, or the Thursday following the 2nd Monday in Sept. { 3rd Monday in April, or 1st Monday in Oct. 3rd Monday in July  { † December 1, or † June 1. Do.  Do.</p>	<p>4th Monday in May. or 3rd Monday in October, 1st Monday in June, or 2nd Monday in November. 1st Monday in September.  December 20, or June 20. Do.  { January 5, or July 5.</p>
<p>1st Monday in April. { 2nd Monday in April, or 2nd Monday in October. { 2nd Monday in January. or 2nd Monday in April, 3rd Monday in July, 4th Monday in March.  4th Monday in March, Immediately after the Preliminary Examination, Immediately after the Final Examination, ... 2nd Monday in April ...</p>	<p>1st Monday in May, 1st Monday in May. or 1st Monday in November. 4th Monday in January. or 4th Monday in April. 2nd Monday in August, 1st Monday in May.  4th Monday in May. Do. Do. ... 4th Monday in May. ...</p>

\* Examinations to commence on the next working day if the dates mentioned happen to be holidays.

Provided that in the case of the March-April Examinations,

- (1) If the fourth Monday in March falls in the week preceding Easter Day, the Matriculation Examination shall commence on the previous Saturday, the Intermediate, B.A., BSc., B.A. (Honours) Preliminary, B.A. (Honours) Degree Final Examination and M.A. Degree Examination, the examinations in Engineering, and the Oriental Titles Examinations shall commence on the previous Tuesday.
- (2) Thursday, Friday and Saturday before Easter Day and Easter Monday shall be *dies non*.
- (3) The dates for the commencement of (i) the examinations in Optional Groups (i), (ii-A), (ii-B), and in each main and in each subsidiary subject of Optional Group (iii) in the courses for the B.A. Degree, and in each separate branch of knowledge in the courses for the B.Sc. Degree and (ii) the examinations in Group (vi) of the B.A. Degree Examination and in Branch iv of the B.A. (Honours) Degree Examination shall be those notified by the Syndicate in the preceding February.
- (4) The Syndicate shall so fix the dates of the Vidvan Preliminary and Final Examinations, as to avoid, as far as may be practicable, the setting of duplicate sets of question papers in the same subject:

Provided also that applications for admission to Examinations received within a period of five days after the dates specified above will be accepted on payment of a fee of rupee one per candidate.

Provided also that it shall be competent for the Registrar to publish the results on any day previous to or succeeding the dates mentioned, if ordinarily at least three days' notice is given to the public of the change.

## CHAPTER XXXI

### MATRICULATION

**Matriculation of S. S. L. C. holders** 1. Subject to such rules and directions as the Syndicate may issue from time to time, holders of completed Secondary School-leaving Certificates and of completed European School-leaving certificates issued under the authority of the Government of Madras or such other authority as may have been accepted by the Syndicate, may be admitted by the Head of an affiliated college to a University course of study, and when so admitted shall be registered as Matriculates of the University. Female holders of such certificates who wish to study privately for the Intermediate Examination may submit their certificates to the Syndicate, and the Syndicate, if satisfied with their certificates, shall order their registration as Matriculates of the University.

**Register of Matriculates** The register maintained of Matriculates under this regulation shall set forth, in respect of each Matriculate, the name in full, the name of father or guardian, age, as given in the return of Matriculates, religion, vernacular, school where educated, number and date of School-leaving certificate or European School-leaving certificate, Government issuing certificate, and, except in the case of female Matriculates registered by order of the Syndicate, affiliated college entered, and date of admission.

**Matriculation of those other than S. S. L. C. holders** 2. Other candidates for Matriculation shall be required to pass either (1) the Matriculation Examination of this University or (2) some other examination accepted by the Syndicate as equivalent thereto.

**Matriculation pass certificate** 3. A candidate who passes the Matriculation Examination of this University shall be registered as a Matriculate and shall receive a certificate signed by the Registrar setting forth the date of the Examination, the

\* Regulations under the University Act of 1904 (now repealed which so far as they may be applicable, continue to be in force until they are replaced by the Statutes, Ordinances and Regulations to be framed under the Act of 1928.

optional language in which he was examined, and the class in which he was placed.

**Registration of students passing other examinations** A candidate in whose case some other examination is accepted as the equivalent of the Matriculation Examination of this University shall be registered as a Matriculate of the University when admitted to an affiliated college. The Register shall set forth, in respect of each such Matriculate, the name in full, the name of father or guardian, age, religion, vernacular, accepted examination, date of passing and number of certificate, authority issuing certificate, affiliated college entered, date of admission. In the case of female candidates admission to a college shall not be required as a condition of Matriculation.

## CHAPTER XXXII.

### Matriculation Examination.

**Regulation Conditions of admission** 1. No candidate shall be admitted to the Matriculation Examination unless he shall have completed the age of fifteen years on or before the first day of the examination: provided that the Syndicate may exempt from the operation of this Regulation any candidate who will have completed the age of 14 years on or before the first day of the examination, who is specially recommended for such exemption by the Headmaster of the school of which he is a pupil and who produces a certificate of physical fitness from a registered Medical Practitioner. Applications for such exemption must be forwarded so as to reach the Registrar before the 1st of December preceding the examination.

2. Unless specially exempted by the Syndicate no candidate who is not a pupil of a recognised high school shall be permitted to appear for the examination.

**Regulation Recognition of Schools** 3. Schools falling under any of the following classes shall be recognized by the University:—

(a) Schools recognized by the Director of Public Instruction of Madras as teaching up to the Matriculation standard.

(b) Schools in Ceylon certified by the Director of Public Instruction, Ceylon, to be organized and conducted so as to ensure efficient training up to the standard of the Matriculation Examination.

(c) Schools in Native States of Southern India certified by the Darbars of the States in which they are situated to be organized and conducted so as to ensure efficient training up to the standard of the Matriculation Examination.

(d) Schools in Pondicherry certified by the Director of Public Instruction, French India, to be organized and conducted so as to ensure efficient training up to the standard of the Matriculation Examination.

4. The Syndicate shall have the power to exempt from the production of the prescribed annual Certificate of attendance for the Matriculation Examination (a) Candidates who hold completed School-leaving Certificates issued under the authority of the Government of Madras or such other authority as may have been accepted by the Syndicate, provided that their appearance for the Secondary School-leaving Certificate Examination was at least three years prior to the date of their proposed appearance at the Matriculation Examination, (b) candidates who, during the previous three years, have been educated privately or in schools outside the territorial limits of the Madras University, as defined in the Indian Universities Act, 1904, provided that in each case they produce satisfactory evidence that they are of good character and that they have received suitable instruction. Applications for exemption under this Ordinance must be forwarded so as to reach the Registrar before the 1st October preceding the Examination.

Regulation  
Courses of study  
and Subjects for  
Examinations

5. The examination shall comprise five divisions; (i) English Language; (ii) Second Language; (iii) Mathematics; (iv) Elementary Science; (v) History and Geography.

i. *English Language.*

**i. English Language** Text-books shall be prescribed, of which a detailed knowledge may be required.

There shall be two papers set upon the English language: one paper of two-and-a-half hours' duration, which shall be mainly upon the prescribed texts and shall be designed to test the candidate's proficiency in composition and his knowledge of grammar and idiom; and one paper of two-and-a-half hours' duration, which shall consist of (a) composition and paraphrase not based on the texts, and (b) the conversion, expansion, and condensation of sentences. Some of the exercises in the second paper shall be based on the texts. Paraphrase shall be treated as a test of the candidate's power to understand and give the general meaning of passages of prose or poetry.

ii. *Second Language.*

**ii. Second Language** One of the following languages at the option of the candidate:—

(a) Classical	...	...	{ Sanskrit. Greek. Latin.	Arabic. Persian. Hebrew.
(b) Foreign	...	...	...French.	German.
(c) Indian Vernaculars	...	...	{ Urdu. Kanarese. Tamil. Telugu. Malayalam.	Marathi. Oriya. Burmese. Sinhalese. Hindi.

In each classical or foreign language there shall be one paper of three hours' duration divided into two parts, of which the first shall contain passages for translation from the text-books and questions on grammar and idiom, and the second shall contain unseen passages for translation from the selected language into English and from English into the selected language. To the second parts of the paper not less than half the total number of marks shall be assigned.

In each of the Indian vernacular languages there shall be one paper of three hours' duration divided into two

parts, of which the first shall contain questions on the text-books and on grammar and idiom, and the second part shall consist of original composition. The texts prescribed shall be mainly in modern prose. To the second part of the paper not less than half the total number of marks shall be assigned.

### iii. *Mathematics.*

There shall be two papers set in Mathematics, one in Arithmetic and Algebra of three hours'

iii. *Mathematics* duration, and the other in Geometry of two-and-a-half hours' duration.

(a) *Arithmetic*.—The principles and processes of Arithmetic applied to whole numbers and vulgar and decimal fractions. The metric system. Approximations to a specified degree. Contracted methods of multiplication and division of decimals. Practice, ratio and proportion. Square and Cubic measure. Direct applications of the term *per cent*; including interest, present-worth and discount, stocks and shares, profit and loss, exchange, Square root.

(b) *Algebra*.—Symbolical expression of general results in Arithmetic. Algebraical laws and principles and their applications. Factorization of simple functions. Equations, conditional and identical. Equations of the first degree in one, two and three variables and the principles involved in their solution. Solution of problems by means of such equations. Equations of the second degree in one variable and the principles involved in their solution. Theory of positive integral indices. Square root. Graphs of simple algebraic functions.

(c) *Geometry—Experimental*.—Construction of lines, angles, circles, perpendiculars, parallels, tangents, chords, triangles and regular polygons from given data. Division of lines in given ratios. Bisection of angles. Graphical extraction of Arithmetical square roots.

*Theoretical*.—Angles at a point. Parallel straight lines. Triangles and rectilinear figures. Areas. Simple loci. Elementary propositions on circles. Proofs of the



constructions in *Experimental Geometry*. Easy deductions

A detailed syllabus in Geometry will be prescribed from time to time.

iv. *Elementary Science.*

There shall be one paper of three hours' duration in  
 iv. Elementary Science Elementary Science comprising Elementary Physics and Elementary Chemistry, as defined in a syllabus.

v. *History and Geography.*

There shall be two papers set in  
 v. History and Geography History and Geography, each of two hours' duration.

1. History—

(1) Outlines of the History of Great Britain and Ireland—a period or periods, as defined in a syllabus, to be prescribed each year.

(2) Outlines of the History of India—a period or periods, as defined in a syllabus, to be prescribed each year.

2. Geography—

(1) Geography of India, Great Britain and Ireland, as defined in a syllabus.

(2) Geography of Europe, Asia, Africa, America, and Australia, as defined in a syllabus.

6. A candidate shall be declared to have passed the examination if he obtains not less than  
 Regulation Marks qualifying for a pass forty per cent. of the marks in the English language and not less than thirty-five per cent. of the marks in each of the remaining divisions, provided that a candidate who fails to obtain the required minimum in one subject only but who passes in English and gains fifty

per cent. of the total number of marks shall be declared to have passed.

All other candidates shall be deemed to have failed in the examination. Successful candidates who obtain not less than sixty per cent. of the aggregate marks shall be placed in the first class. Successful candidates who obtain less than sixty per cent. and not less than fifty per cent. of the aggregate shall be placed in the second class. All other candidates who pass shall be placed in the third class.

Regulation.  
Classification of  
successful candi-  
dates

### CHAPTER XXXIII (Regulations.)

#### \* Intermediate Examination in Arts and Science New Regulations.

1. Matriculates prior to proceeding to the Intermediate Examination shall be required to undergo a course of study in a constituent or an affiliated college for a period extending over two years, each of which shall consist of three terms. The Intermediate course shall consist of three parts.

Courses of Study

#### Part I.—English.

For this course books in English  
English Prose and Poetry shall be prescribed.

In prescribing these books, two objects shall be kept in view—

(a) the improvement of the students' knowledge of the English Language and of its Literature; (b) the development of their ability to extend the range of their knowledge by training them to read with ease and discrimination.

The course of study shall consist of—

- (1) The detailed study of certain set books.
- (2) The perusal, as distinct from a detailed study, of other set books.

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\*For Regulations in force prior to 1927-28 relating to Intermediate Examination Vide Appendix XXI.

Certain of the set books which are to be studied in detail may be retained from year to year. The books which are not to be studied in detail shall be prescribed every year. The books prescribed in any year shall not for (a) detailed study be more than one play of Shakespeare, about 600 lines of additional verse, and two prose books and for (b) perusal be more than three books. The books prescribed shall be of the same average length and difficulty from year to year.

(3) Such instruction and exercises in rhetoric and composition as may be expected to develop the students' powers of understanding English and writing it clearly, concisely, and correctly. This instruction should include the following topics:—

The paragraph as the unit of prose composition. The sentence as a constituent portion of the paragraph. The period and the loose sentence. Unity, balance and emphasis in relation to paragraph and sentence. Logical sequence of sentences and paragraphs and explicit references to preceding paragraphs, as securing coherence in any essay.

2. Part II. A second language. The course will comprise text-books, grammar, translation, and in the case of vernaculars original composition, (the scope being indicated for the present by an allotment of four hours of instruction a week).

The main object of the study of the Indian vernacular languages is to train the student to use the language as a vehicle of current thought.

One of the following languages at the option of the candidate:—

(a) Classical	Sanskrit	Arabic
	Greek	Persian
	Latin	Hebrew
(b) Modern European	French	German

(c) Indian	Tamil	Marathi
	Telugu	Oriya
	Kanarese	Burmese
	Malayalam	Sinhalese
	Urdu	Hindi

3. Part III. Three subjects to be selected out of the following Groups A, B and C at the option of the candidate.

Group A	Group B	Group C
Mathematics	Logic	Economic History of
Physics	Indian History	England and Eco-
Chemistry	Ancient History	nomic Geography.
Natural Science	Modern History	Elements of Com-
Geography	A third Language	merce and Account-
		ancy
		Agriculture
		Electrical Engineer-
		ing
		Mechanical Engi-
		neering
		Surveying
		Drawing
		Indian Music
		Western Music
		Architecture.

Subjects for Examination 4. A candidate shall be examined in—  
Part I. English.

There shall be three papers on English Language and Literature. The first paper of three hours' duration shall be on the books of Poetry set for detailed study. The second paper of two and a half hour's duration shall be on the books of Prose set for detailed study. The third paper of three hours' duration shall be on composition and shall contain exercises designed to test the candidate's power to apply the principles studied in the course; in particular it shall contain (a) exercises in epitomizing and paraphrasing passages of prose and poetry which shall not be taken from any of the books prescribed for detailed study or for perusal and (b)

subjects for two short essays drawn from the subject-matter of the set books—not more than three—prescribed for perusal as distinct from detailed study and from topics of general interest. The papers in the examination shall be so set that candidates shall be able to get full marks in the examination without answering questions on matters relating to purely literary criticism or scholarship.

Note.—*The number of questions set should not exceed five in the Poetry paper and four in the Prose paper.*

Part II. A second language. Any one of the classical, modern European or Indian languages mentioned in Regulation 2 of this chapter according to a prescribed syllabus.

In each of the languages mentioned above, there shall be two papers—one of three hours' duration and the other of two hours' duration.

The three hours' paper in the case of Sanskrit, Arabic, Persian and Hebrew, and the two hours' paper in the case of all other languages, shall contain questions on text-books prescribed for detailed study, grammar, and idiom.

The other paper shall contain (1) in the case of all the languages mentioned under regulation 2 (a) and (b) *supra*, questions on translation from the selected language into English, and *vice versa*, and (2) in the case of the Indian Languages mentioned under Regulation 2 (c) *supra* questions on the books prescribed for non-detailed study, original composition, and translation from English into the selected Indian language.

Part III. Three subjects to be selected out of the three Groups A, B and C mentioned in Regulation 3 of this chapter at the option of the candidate subject to the proviso contained in Regulation 5 hereunder. Two papers shall be set for each subject of two hours' duration, except in the case of Languages in which there shall be two papers one of two hours and the other of three hours' duration, as detailed under Part II. The text-books for each subject under this Group shall be prescribed from

time to time on the recommendation of the Boards of Studies concerned. (For text-books—*vide* **Appendix II**).

5. A candidate who has passed Parts I and II and in **Examination** three of the subjects in Part III, as prescribed, shall be declared to have passed the Intermediate Examination.

A candidate who wishes to proceed to a degree in Arts or Science shall be required to choose *two at least* of his optional subjects from either Group A or Group B.

This will not debar students who have taken the two Commercial subjects under C from proceeding to Group IV-B—(V-B under the old Regulations) of the B.A. course.

A candidate who wishes to proceed to the Degree in Commerce shall be required to choose at least one of the Commercial subjects under Part III Group (c) as one of his optional subjects.

6. A candidate shall be declared to have passed the **Marks qualify- examination** if he obtains not less than **ing for a pass** (1) 35 per cent. of the marks in English under Part I, (2) 35 per cent of the marks in the second language under Part II, and (3) 35 per cent. in each of the three subjects selected under Part III.

All other candidates shall be declared to have failed in the examination.

7. Candidates who pass in all the Parts at the **Classification of same examination, and who obtain not successful candi- less than 50 per cent. of the total num- dates** ber of marks shall be placed in the first class. All other successful candidates shall be placed in the second class.

Candidates who pass in all the Parts at the same examination, and obtain not less than 60 per cent. of the marks in any subject shall be declared to have gained distinction in that subject.

Candidates who obtain the prescribed minimum number of marks in each part in separate examinations and

are declared to have passed the examination under Regulation 9 of this Chapter shall be placed in a separate list in the second class.

8. A candidate applying for the examination on the first occasion shall appear for all the three Parts of the examination and thereafter may appear for any Part or Parts of the examination.

9. A candidate shall be declared to have passed the examination on his obtaining in each Part of the examination not less than the minimum number of marks prescribed for that Part as laid down in Regulation 6 of this chapter, provided that he obtained such marks on the last occasion on which he presented himself for examination in such Part or Parts.

10. A candidate who has passed the Intermediate Examination in Arts and Science shall be permitted to appear again for the same examination offering a different set of optional subjects under Part III of the Intermediate Course, provided he has undergone the course of study prescribed in the new set of subjects selected and that he has attended a college for a further period of not less than one year. He shall be exempted from re-examination in English and the Second language.

#### CHAPTER XXXIV.

DEGREES OF BACHELOR OF ARTS, BACHELOR OF ARTS (HONOURS), MASTER OF ARTS, M. A. DEGREE IN RESEARCH AND DEGREE OF DOCTOR OF PHILOSOPHY.

....

#### Degree of Bachelor of Arts.\*

(NEW REGULATIONS.)

1. Subject to the Laws of the University regarding recognition of the Examinations of other Universities as equivalent to the Intermediate Examination of this University, under-graduates who have been declared to have passed the Intermediate Examination in Arts and Science of

Under graduates  
proceeding to B.A.  
or B.A. (Hons)

\* For Regulations in force prior to 1929 relating to B.A. Degree Examination Vide Appendix XXII,

this University, and have satisfied the requirements of para 2 of Regulation 5 of Chapter XXXIII, shall undergo a further course of study in a constituent or an affiliated College, varying in length according as they desire to proceed to the Bachelor of Arts Degree Examination or to the Bachelor of Arts (Honours) Degree Examination.

### Course of Study.

2. The course for the B. A. Degree shall extend over **Course of study** a period of two years, each consisting of three terms ordinarily consecutive, and shall comprise instruction in the following subjects, according to a syllabus to be prescribed from time to time.

Part I—English Language and Literature.

Part II.—A Second Language.

Part III.—One of the following Groups:—

(i-A) Mathematics. [*comprising Algebra and Trigonometry, Calculus, Geometry, (Pure and Analytical), Dynamics, Astronomy, Hydrostatics, Properties of matter and Heat.*]

(i-B) Mathematics. [*comprising Algebra and Trigonometry, Calculus, Analytical Geometry, Dynamics, and any two of the following:—Astronomy, Elements of Statistics, Economics, Pure Geometry, Analysis.*]

(ii) Any two of the following subjects, one of which shall be on the main standard, and the other on the subsidiary standard.

(a) **Mathematics.**

(b) **Physics.**

(c) **Chemistry.**



- (d) Botany.
- (e) Zoology.
- (f) Geology.
- (g) Physiology.
- (iii) Philosophy.
- (iv-A) History and Economics.
- (iv-B) Economics and History.
- (v) Languages other than English.

3. No candidate shall be eligible for the Degree of Bachelor of Arts until he has completed the course of study prescribed and passed an Examination in the subjects contained in the course of study as detailed in Regulation 2 *supra*.

**Subjects for Examination.**

4. Candidates shall be examined in the following subjects:—

**Part I—English**      *Part I—English Language and Literature.*

The course shall comprise—

- (a) the study in detail of certain prescribed books; and
- (b) composition on matter supplied by the Prose books prescribed for perusal.

The works for study shall be prescribed annually and shall embrace the following:—

- (1) Shakespeare—Two plays of Shakespeare for detailed study.
- (2) Modern Poetry—Milton to\* the present day. About 2,000 lines of poetry will be prescribed for detailed study.

## (3) Prose 1.—Addison to 1832.

Two books shall be prescribed for detailed study, and not more than one book for perusal.

## (4) Prose II—1832 to the present day.

Two books shall be prescribed for detailed study, and not more than two other books for perusal.

*Note* (1) The questions set in the four papers shall be such as shall give the candidate an opportunity of showing an acquaintance with the life and work of the authors of the books prescribed; in connection with the study of Shakespeare, however, the candidate shall be required to show a general knowledge of only three other plays which will be prescribed from time to time.

(2) The papers on Prose I and II shall include exercises in composition on matter selected from the books set for perusal.

Each of the four papers shall be of three hours' duration.

*Part II—A Second Language.*

Any one of the following Classical, Modern European, or Indian Languages, at the option of the candidate, according to a syllabus to be prescribed from time to time.

Part II Second  
language

Classical

Sanskrit

Arabic

Greek

Persian

Latin

Hebrew

Modern European

French

German

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Indian Languages	Tamil	Marathi
	Telugu	Oriya
	Kanarese	Burmese
	Malayalam	Sinhalese
	Urdu	Hindi

In the selected language, there shall be two papers, each of three hours' duration. Each paper shall comprise questions as detailed below:—

*Classical Languages.*

**Sanskrit.**—The first paper shall relate to the prescribed text-books and grammar taught with reference to them. The second paper shall consist of three parts, the first part consisting of Sanskrit passages partly from the text-books and partly from passages not contained in the text-books for translation into English or vernacular, the second part consisting of a passage or passages in English for translation into Sanskrit, and the third part relating to the History of Sanskrit Literature, the Vedic period being omitted.

**Greek and Latin.**—The first paper shall consist of passages for translation from the text-books, questions on Idiom and Grammar, and questions on the subject matter of the text-books. The second paper shall consist of a piece of English Prose for translation into Greek or Latin and passages not contained in the text-books for translation into English.

**Hebrew, Arabic and Persian:—**

The first paper shall consist of questions on (1) Text-Books (2) Grammar and (3) Rhetoric and Prosody of an elementary nature, and the second paper shall consist of questions on Translation from the selected language into English and *vice versa* and on the History of Literature,

### *Modern European Languages.*

*French and German.*—The first paper shall consist of passages for translation from the text-books, questions on idiom and grammar, and questions on the subject matter of the text-books. The second paper shall consist of a subject for composition chosen from the prescribed books, and unseen passages shall be set for translation from French or German into English and *vice versa*.

### *Indian Languages.*

*Urdu:*—

The first paper shall comprise questions on (1) prescribed Text-books (2) Grammar (3) Rhetoric and Prosody of an elementary nature and (4) on the History of Literature.

*All other Languages:*—

The first paper shall consist of questions on prescribed Text-books in Poetry and Prose, Grammar and History of Language and Literature.

The second paper shall comprise

(1) a passage or passages in English for translation into the selected language;

(2) a subject for essay having reference to modern thought;

(3) a subject for essay based on books prescribed for non-detailed study.

*Note:* One hour shall ordinarily be assigned for translation question and one hour for each part of composition.

### **Part III.**

One of the groups mentioned in Regulation 2 of this Chapter, at the option of the candidate, the scope and duration of each being in accordance with a prescribed syllabus.

**Part III Option-  
al Groups**

The course of study and the scheme of examination in the several groups shall be as hereunder :—

(For Syllabuses—Vide Appendix III).

***Group (i-a) Mathematics.***

The course shall comprise the study of (1) Algebra and Trigonometry (2) Calculus (3) Geometry (4) Dynamics (5) Astronomy (6) Hydrostatics, Properties of Matter and Heat. The examination shall consist of six papers, of which three [1. Algebra and Trigonometry, 2. Geometry, (Pure and Analytical) and 3, Hydrostatics, Properties of Matter and Heat] shall be of three hours' duration and three of two hours' duration each.

***Group (i-b) Mathematics.***

The course shall comprise the study of Algebra and Trigonometry, Calculus, Analytical Geometry, Dynamics [4 papers of 10 hours' duration as under Group (i-a) above] and any two of the following subjects with two papers of 3 hours' duration each—

1. Astronomy
2. Elements of Statistics
3. Economics
4. Pure Geometry
5. Analysis

The examination shall consist of four papers in the compulsory subjects [Algebra and Trigonometry (3 hours) Analytical Geometry (3 hours), Calculus (2 hours), Dynamics (2 hours)] and one paper of three hours' duration in each of the two optional subjects selected.

***Group (ii).***

***(a) Mathematics—Main.***

The course shall comprise the study of (1) Algebra and Trigonometry (2) Analytical Geometry (3) Calculus and (4) Dynamics.

The Examination shall consist of 4 papers of 10 hours' duration as under Group (i-b) above.

*Mathematics—Subsidiary.*

The course shall comprise the study of the following subjects :—

Algebra and Analytical Geometry and Calculus.

The Examination shall consist of two papers of two and a half hours' duration each.

(Physics, Chemistry and Natural Science:—The existing Regulations and Syllabuses will continue to be in force till they are replaced

*Group (iii)—Philosophy.*

The course shall comprise the study of (1) Psychology (2) Ethics, (3) Logic and Theory of Knowledge, (4) One of not more than three Philosophical works (of which at least one shall be the study in whole or in part of an Indian work) prescribed from time to time.

Under Logic and Theory of Knowledge, the first paper shall deal with Indian Logic and Theory of Knowledge and the second with European Logic and Theory of Knowledge.

The Examination shall consist of six papers, of which two shall be of three hours' duration (Prescribed Philosophical work and Ethics) and four of two hours' duration divided as follows :—

Two papers in Logic and Theory of Knowledge.

Two papers in Psychology.

*Group (iv-a)—History and Economics.*

The course shall comprise the study of and examination in the following subjects :—

(1) General Indian History

(2) Constitutional History of Great Britain and Ireland.

(3) Outlines of European History—A. D. 476 to A. D. 1878.

(4) Elements of Economics, and

(5) Political Science.

There shall be five papers of three hours' duration each

**Group (iv-b)—Economics and History.**

The course shall comprise the study of the following subjects :—

There shall be five papers of three hours' duration each divided as follows :—

1. Economics—General (in common with Group (iv-a))
2. Economics—Special
3. Modern Economic History of England and India from 1600 A. D.)

4 & 5 Any two of the following three subjects—

Political Science  
European History  
Indian History } (in common with Group (iv-a))

The second paper, "Economics—Special" shall consist of two parts (a) Public Finance and (b) Rural Economics, both with special reference to India. Public Finance will include the economic functions of the State, the raising and spending of taxes and public loans and the regulation of tariffs. Rural Economics will include the organization and financing of Agriculture, the Co-operative Movement and other allied problems.

**Group (v)—Languages other than English.**

Candidate may select any one of the following languages, which shall be taken in conjunction with the cognate subject or related language specified for each language in the following list :—

<i>Selected Language</i>	<i>Cognate subject or language</i>
Sanskrit	Early Indian History
Persian or Arabic	Early Muslim History

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<i>Selected Language</i>	<i>Cognate subject or language</i>
Urdu	Indian History-Muslim Period
Tamil, Telugu, Malayalam or Kanarese	Early South Indian History
Oriya	Early History of Orissa
Greek or Latin	A Special Period of Greek or Roman History respectively
Marathi	History of the Marathas
German or French	A Special Period of Modern European History
Hebrew	History of the Jews <i>Related Language</i>
Dravidian Languages, Mara- thi, or Oriya	Sanskrit
Urdu	Arabic or Persian

The course of study in the several languages shall be in accordance with a syllabus to be prescribed from time to time

The examination shall consist of six papers of three hours' duration each

5. A candidate shall not be eligible for the degree of the Bachelor of Arts unless he has passed the examination in English Language and Literature under Part I, the examination in the selected second language under Part II, and the examination in the selected optional group under Part III. A candidate who obtains not less than 35 per cent of the marks in Part I shall be declared to have passed the examination in Part I, a candidate who obtains not less than 35 per cent of the marks in the selected language in Part II shall be declared to have passed the examination in Part II; and a candidate who obtains not less than 35 per cent of the total marks in the selected optional group in Part III and not less than 30 per cent of the marks in each division of the examination in this Part



shall be declared to have passed the examination in Part III.

The divisions shall be as follows:—

*Group (i-a).* (1) Pure Mathematics (2) Applied Mathematics.

*Group (i-b).* (1) Compulsory subjects (2) Optional Subjects.

*Group (ii).* (a) (1) Main Subject. (2) Subsidiary subject.

(b) to (g) (1) The written examination in the main subject, (2) the practical examination in the main subject, (3) the subsidiary subject.

*Group (iii)* (1) Psychology and Ethics, (2) Special Subject and Logic.

*Group (iv-a)* (1) Indian, European and Constitutional Histories, (2) Economics and Political Science.

*Group (iv-b)* (1) Economics, (2) History.

*Group (v)* (1) Selected Language, (2) Related Subject or Language.

6. Successful candidates who obtain not less than 60 per cent of the marks in any Part mentioned in Regulation 2 shall be placed in the first class in that part. Successful candidates who obtain less than 60 per cent and not less than 50 per cent of the marks in any Part mentioned in Regulation 2 shall be placed in the second class in that Part. All other successful candidates obtaining less than 50 per cent and not less than 35 per cent of the marks in any Part mentioned in Regulation 2 shall be placed in the third class in that Part.

Candidates may  
appear for whole  
Examination or  
for Parts

7. A candidate for the B.A. Degree examination may, at his option present himself for the whole or for any Part or Parts of the examination at any one time.

#### DEGREE OF BACHELOR OF ARTS (HONOURS)\*

##### *A. Courses of Study.*

8. For the B.A. (Honours) degree the course shall extend over a period of not less than three years, each consisting of three terms ordinarily consecutive, and shall comprise instruction in:—

Courses of study

- I. English during the first year (preliminary Examination).
- II. One of the following branches of knowledge during the three years:—
  - i. Mathematics.
  - ii. Philosophy.
  - iii. History, Economics and Politics.
  - iv. Two languages, other than English one being a classical language already studied in the Intermediate course; provided however that this restriction shall not apply if one of the two languages selected is Sanskrit and the other an Indian Vernacular.
  - v. English Language and Literature.
  - vi. Sanskrit Language and Literature.
  - vii. Arabic Language and Literature.

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\*For the regulations relating to the courses of study and examinations in Physical and Natural Sciences for the B.A. (Honours) Degree Examination, which shall remain in force till the year in which the first examination is held for the Degree of Bachelor of Science (Honours) in the corresponding Branches ii to vi. see Appendix XXV. The numbering of the Branches will, till then, continue for purposes of examination to remain the same as in the Calendar of 1918.

### B. Examinations.

9. (a) No candidate shall be eligible for the B.A. Examinations (Honours) degree until he has passed an examination in one of the branches of knowledge contained in the courses of study.

(b) No candidate, other than those hereafter exempted, shall be admitted to the final examination in Honours unless he has passed a preliminary examination.

This preliminary examination shall be, in the case of candidates, other than those who have selected Branch v of the Honours course, the examination in English for the B.A. degree in (1) Composition, (2) Nineteenth Century Prose. In the case of candidates, who have selected Branch v the preliminary examination shall be in (1) Composition as above, (2) The History of England treated in relation to the History of English Language and Literature.

There shall be one paper in English History which shall consist exclusively of subjects for short essays, and of these the paper shall contain a larger number than the candidate is permitted to attempt.

A candidate shall be declared to have passed the preliminary examination if he obtains not less than forty per cent. of the total marks in the two papers taken together. All other candidates shall be deemed to have failed in the examination. Successful candidates obtaining not less than sixty per cent. of the total marks shall be declared to have passed with distinction.

(c) No candidate shall be admitted to the preliminary examination unless he has passed the Intermediate Examination in Arts and Science in this University or an examination in some other University recognized by the Syndicate as equivalent thereto.

10. A candidate for the B.A. (Honours) degree who has passed the B.A. Degree Examination shall be permitted to appear for the B.A. (Honours) Degree Examination after a two years' course in a constituent or in

affiliated college provided he has passed the B. A. Degree Examination in the subjects for which he desires to appear. He shall be exempted from passing the preliminary examination.

11. A candidate for the B.A. (Honours) degree shall appear for the final examination in Honours not later than the end of the fourth year after he has passed the Intermediate Examination or not later than the month of March following the end of the fourth year in the case of candidates declared to have passed in September.

**Time limit for appearance at Final Examination**

12. No candidate shall be permitted to undergo the complete final examination in Honours more than once.

**Permitted to appear only once**

13. In the event of a candidate for the B.A. (Honours) degree failing to satisfy the Examiners he may be recommended by them for the B.A. degree provided that he obtains not less than  $33\frac{1}{3}$  per cent. of the total marks and not less than twenty-five per cent. in each division of examination.

**Candidates for Honours recommended for B.A. degree**

14. A candidate qualifying for the B.A. Degree under the preceding Regulation of this Chapter shall be permitted to appear for the M.A. Degree Examination in the same subject in any subsequent year without the production of further certificates of attendance.

15. A candidate not already eligible for the B.A. degree, who, having failed completely in the B.A. (Honours) Degree Examination, desires to appear for the B.A. Degree Examination, shall be allowed to do so without the production of a further certificate of attendance in an affiliated college.

**Candidates failing in Honours may appear for B.A. privately**

**Subjects for examination**      16. The courses in each Optional Branch of knowledge shall be as follows:—

(i) *Mathematics.*

A candidate shall be required to have a sound knowledge of—

**1. Mathematics**      (a) Pure Mathematics:

1. Pure Geometry including Projective Geometry.
2. Algebra and Theory of Equations.
3. Plane Trigonometry.
4. Differential and Integral Calculus including Reimann integration, Cauchy's theorem on Contour integration and Fourier's series.
5. Elementary Differential Equations.
6. Co-ordinate Geometry of two dimensions.
7. Solid Geometry—the line, plane, sphere and surfaces of the second degree.

(b) Applied Mathematics.

1. Statics excluding the theory of potentials.
2. Dynamics of a Particle.
3. Dynamics of a Rigid Body—motion in two dimensions.
4. Hydrostatics.
5. Astronomy, General and elementary spherical.

(c) Two of the following subjects at the option on the candidate:—

- |                                |                        |
|--------------------------------|------------------------|
| 1. Geometry                    | ... A special subject. |
| 2. Algebra...                  | ... do.                |
| 3. General Theory of Functions | ... do.                |
| 4. Differential Equations      | do.                    |
| 5. Special Functions ...       | do.                    |

A candidate shall give notice through his college, a year before the date of the examination of the particular subjects he proposes to take.

Three papers shall be set in Pure Mathematics, three in Applied, and one in each of the optional subjects selected. Each paper shall be of three hours' duration and shall contain questions on the principles developed in the ordinary treatment of the subject as well as exercise of moderate difficulty arising therefrom.

(ii) *Philosophy*

A candidate shall be examined in—

ii. Mental and Moral Science (1) Logic and Theory of knowledge, according to a syllabus.

- (2) Either Psychology or Ethics, as the candidate may select, according to a syllabus *provided* that a candidate selecting Psychology must have attended, and made satisfactory progress under a course of instruction in Ethics equivalent to that required of candidates for the B.A. degree, and that a candidate selecting Ethics must have attended, and made satisfactory progress under a course of instruction in Psychology equivalent to that required of candidates for the B.A. degree.
  - (3) Outlines of European Philosophy according to a syllabus.
  - (4) Outlines of Indian Philosophy according to a syllabus.
  - (5) A prescribed modern work dealing constructively with the general problems of Philosophy.
  - (6) One of the following, according to the candidate's option:—
- (a) One of the following schools of Indian Philosophy, to be studied historically and critically—

Adwaita Vedanta.  
Saiva Siddhanta.  
Visistadwaita.  
Dwaita

Sankhya.  
Buddhism.  
Jainism.

- (b) A prescribed period of Ancient European Philosophy.
- (c) A prescribed period of Modern European Philosophy.
- (d) Political Philosophy.
- (e) The Philosophy of Religion.
- (f) Experimental Psychology.

The examination shall be conducted by means of written papers and an essay, with the addition, in the case of Experimental Psychology, of a practical examination.

A candidate shall give notice through his college, a year before the date of the examination, of the particular subjects he proposes to take.

(iii) *History, Economics and Politics.*

A candidate shall offer himself for examination in--

*Either A.*

iii. History,  
Economics and  
Politics

1. The History of India.

2. Constitutional History of Great Britain and Ireland.

3. Politics.

4. Economics.

5. A special subject } to be selected from a list pres-  
6. A special subject } cribed from time to time

*or B*

(1) Economics I	} a general survey of an advanced character.
(2) Economics II	
(3) Politics	
(4) Indian History, accord- ing to a syllabus	

- (5) A special subject } to be selected from a list  
 (6) A special subject } prescribed from time to time.

He shall further be required to write an essay.

A candidate shall give notice through his college, a year before the date of the examination of the particular papers he proposes to take.

(iv) *Two Languages other than English.*

The course in each language, the text-books prescribed and the examination therein shall be identical with those prescribed for the same language when offered as the selected language in Group (vi) of the B.A. Pass Course, the related subjects and languages being excluded; provided that in the examination in each language in Branch iv (Honours) there shall be an additional paper of three hours' duration in Composition, and provided that a candidate for the B.A. (Honours) Degree in Branch iv who has passed the B.A. Degree Examination in Group (vi) shall be exempted from examination in his selected language of the B.A. Degree Examination, except in respect of the additional paper in Composition specially prescribed for Branch iv in this Regulation, and he shall be credited with the percentage of marks which he obtained in that language in the B.A. Degree Examination.

In cases where there is already provision for a paper in Composition under Group (vi) of the B.A. Pass Course, the additional paper in Composition under Branch iv (Honours) shall have special reference to certain set books of an advanced character that may be prescribed from time to time by the respective Boards of Studies concerned.

A candidate shall give notice through his college at least a year before the date of the examination of the languages in which he proposes to appear.

(v) *English Language and Literature.*

There shall be both a written and a *viva voce* examination.



**v. English Language and Literature**

The written examination shall consist of three divisions. There shall be four papers in each of the divisions (a) and (b), and two papers in division (c).

- (a) The History of the English Language; Gothic; Old and Middle English.

The History of the English Language shall include phonology, accidence, and syntax, also Germanic philology so far as it bears on the English language. Gothic shall include phonology and accidence and select extracts of the literary remains of the language. In Old and Middle English there shall be prescribed certain select texts including some portion of Beowulf and of the works of Chaucer. Ability to translate passages from Old and Middle English texts not prescribed shall be tested.

- (b) The History of English Literature; Shakespeare; Modern English.

A candidate shall be required to show a knowledge of the whole course of the history of English literature. In Shakespeare a candidate shall offer for examination certain plays from among those prescribed, of which a detailed study shall be required. A candidate shall in addition be required to show a general knowledge of Shakespeare's works and of Shakespearean criticism. In Modern English there shall be a number of set books in prose and poetry of the 15th, 16th, 17th, 18th and 19th centuries. A candidate shall be required to offer certain of them for examination.

**(c) Special Period or Subject**

A candidate shall be required to offer for examination a Special Period or Subject selected by him from the following list:—

- (1) Elizabethan Literature (*i.e.* 1558-1637).
- (2) The Age of Milton and Dryden.
- (3) The Age of Pope and Johnson.
- (4) Wordsworth and his contemporaries.
- (5) Tennyson and his contemporaries.

A candidate shall be required to show a knowledge of the writings of the chief authors of the period selected. He shall also be examined on certain set books of the period selected.

(6) Indo-Germanic Philology with special reference to Sanskrit.

A candidate selecting (6) shall be examined in certain set books in Sanskrit.

Books or groups of books set shall ordinarily continue the same for not less than five years. A candidate shall give notice through his college at least a year before the date of the examination of the books or groups of books which he proposes to offer.

The *viva voce* examination shall be held as soon as possible after the examiners have read the written answers of the candidates. No fixed proportion of marks shall be assigned to it: its purpose is to assist the examiners in placing the candidates.

*The following changes in the courses of study in English Language and Literature should be substituted for the above and will take effect from the examination of 1932 et seq.*

There shall be both a written and a *Viva-voce* Examination. The written examination shall consist of three divisions. There shall be three papers in division (a) five papers in division (b) and two papers in division (c).

(a) The History of the English Language: Old and Middle English.

The History of the English Language shall include phonology, accidence and Syntax, also Germanic Philology so far as it bears on the English language. In Old and Middle English there shall be prescribed certain select texts. Ability to translate passages from Old and Middle English texts not prescribed shall be tested.

(b) The History of English Literature; Shakespeare; Modern English.

A candidate shall be required to show a knowledge of the whole course of the history of English literature. In Shakespeare a candidate shall, in addition to the

detailed study of the prescribed plays be required to show a general knowledge of Shakespeare's works and of Shakespearean criticism. In modern English there shall be a number of set books in prose and poetry of the 15th, 16th, 17th, 18th and 19th centuries. A candidate shall be required to make a detailed study of the texts, marked with an asterisk and to show a general knowledge of the other prescribed texts.

(c) Special Period or subject.

A candidate shall be required to offer for examination a special period or subject selected by him from the following list:—

1. Literature of the 14th and 15th Centuries.
2. Elizabethan Literature. (i.e., 1558-1637).
3. The Age of Milton and Dryden.
4. The Age of Pope and Johnson.
5. Wordsworth and his contemporaries.
6. Tennyson and his contemporaries.

A candidate shall be required to show a knowledge of the writings of the chief authors of the period selected. He shall also be examined on certain set books of the period selected.

7. Indo-Germanic Philology with special reference to Sanskrit.

8. Indo-Germanic Philology with special reference to Gothic.

A candidate selecting (7) shall be examined in certain set books in Sanskrit. A candidate offering (8) shall be examined in select Extracts of the literary remains of Gothic.

Books or groups of books set shall ordinarily continue the same for not less than five years. A candidate shall give notice through his college at least a year before the date of the Examination of the books or groups of books which he proposes to offer.

The *Viva voce* Examination shall be held as soon as possible after the Examiners have read the written answers of the candidates. No fixed proportion of marks shall be assigned to it: its purpose is to assist the examiners in placing the candidates.

(vi) *Sanskrit Language and Literature.*

*Courses of Study—*

1. Every candidate, who presents himself for this branch of the Honours B.A. Examination, shall be required to possess a sound knowledge of the principles of comparative philology and of the elements of comparative grammar with special reference to the important Indo-Germanic languages.

2. The course of studies shall further consist of one part fitted to equip the student with a general knowledge of the Sanskrit language and literature, and also of another part fitted to enable him to acquire a special knowledge of any specified branch or branches of that literature as prescribed from time to time.

3. The course in the general part shall comprise—

- (1) The history of the language;
- (2) The history of the literature in the language;
- (3) Grammar, prosody, and poetics;
- (4) Prescribed text-books in poetry and prose, the selections being fairly representative of the various stages in the life of the Sanskrit language and literature;
- (5) Translation from Sanskrit into English and from English into Sanskrit.

4. The course in the special part shall comprise—

- (1) Prescribed text-books selected from any specified branch or branches of Sanskrit literature;
- (2) A critical and comparative enquiry into the contents and value of the specified branch or branches of the literature taken up for study by the candidate.

*Examination—*

1. There shall be a paper on the principles of comparative philology and the elements of Indo-Germanic comparative grammar.

2. In addition to this there shall be in the general part—

- (1) One paper on the history of the Sanskrit language and literature;
- (2) One paper on grammar, prosody and poetics;
- (3) One paper on the prescribed text-books, in which also there shall be questions on the grammar, structure and idiom of the language;
- (4) One paper on translation from as well as into Sanskrit, the passages given for translation not being taken from any of the prescribed text-books:

and in the special part there shall be—

- (1) Three papers on the prescribed text-books;
- (2) An essay in English on a subject intimately related to the specified branch or branches of Sanskrit literature from which the text-books of the special part are prescribed.

(vii) *Arabic Language and Literature.*

*Courses of study—*

1. Every candidate, who presents himself for this branch of the Honours B.A. Examination, shall be required to possess a sound knowledge of the principles of comparative philology and of the elements of comparative

vii. Arabic Language and Literature

grammar with special reference to the important Semitic languages.

2. The course of studies shall further consist of one part fitted to equip the student with a general knowledge of the Arabic language and literature, and also of another part fitted to enable him to acquire a special knowledge of any specified branch or branches of that literature as prescribed from time to time.

3. The course in the general part shall comprise—

- (1) The history of the language;
- (2) The history of the literature in the language,
- (3) Grammar, prosody and poetics;
- (4) Prescribed text-books in poetry and prose, the selections being fairly representative of the various stages in the life of the Arabic language and literature;
- (5) Translation from Arabic into English, and from English into Arabic.

4. The course in the special part shall comprise—

- (1) Prescribed text-books selected from any specified branch or branches of Arabic literature;
- (2) A critical and comparative inquiry into the contents and value of the specified branch or branches of the literature taken up for study by the candidate.

#### *Examination—*

1. There shall be a paper on the principles of comparative philology and the elements of Semitic comparative grammar.

2. In addition to this there shall be in the general part—

- (1) One paper on the history of the Arabic language and literature;

- (2) One paper on grammar, prosody and poetics;
- (3) One paper on the prescribed text-books in which also there shall be questions on the grammar, structure and idiom of the language;
- (4) One paper on translation from as well as into Arabic, the passages given for translation not being taken from any of the prescribed text-books;

and in the special part there shall be—

- (1) Three papers on the prescribed text-books:
- (2) An essay in English on a subject intimately related to the specified branch or branches of Arabic literature from which the text-books of the special part are prescribed

17 A candidate shall be declared to have taken honours in one of the branches of knowledge for the B.A. (Honours) degree if he obtains not less than 40 per cent of the total marks and not less than 30 per cent in each division of the examination, provided that the passing minimum in each division of the examination in Branch (iv) shall be as specified hereunder. All other candidates shall be deemed to have failed in the examination for Honours. The divisions shall be as follows:—

	Branch i. (a) Pure Mathematics, (b)
Divisions	Applied Mathematics, (c) Optional Subject.

Branch ii. (a) Logic, and Psychology or Ethics, (b) General Philosophy, Outlines of European Philosophy and Outlines of Indian Philosophy, (c) Optional Subject and Essay.

Branch iii. A. (a) Indian History and Constitutional History, (b) Politics and Economics, (c) Special Subjects.

B. (a) Economics (two papers), (b) Politics and Indian History, (c) Special Subjects,

Branch iv. (a) All the five papers in the first language, excluding the additional paper in Composition as in Regulation 16 of this Chapter.

(b) The additional paper in Composition in the first language, as in Regulation 16 of this Chapter.

(c) All the five papers in the second language excluding the additional paper in Composition as in Regulation 16 of this Chapter.

(d) The additional paper in Composition in the second language, as in Regulation 16 of this Chapter.

The passing minimum in each of the two divisions of the examination in an Indian vernacular shall be 40 per cent while in other cases it shall be 35 per cent in each of the two divisions.

Branch v. (a) English language, (b) English literature, (c) Special period or Subject.

Branches vi and vii. (a) Comparative Philology and Comparative Grammar, (b) General part, (c) Special part.

**Classification of successful candidates** Candidates obtaining honours shall be ranked in the order of proficiency as determined by the total marks obtained by each and shall be arranged in three classes:—

The *first*, consisting of those who obtain not less than 60 per cent; the *second*, of those who obtain not less than 50 per cent; and the *third*, of those who obtain not less than 40 per cent; of the total marks.

#### DEGREE OF MASTER OF ARTS.

18. Upon payment of a fee of Rs. 25 a graduate in Honours may, without further examination, proceed to the degree of M.A. after the lapse of five years from the date of his having passed the Intermediate Examination in Arts and Science.



19. A Bachelor of Arts of this University after an interval of two years from the date of qualifying for that degree may further qualify for the M.A. Degree by passing the prescribed examination in any one of the following subjects:—

- I. Mathematics.
- II. Philosophy.
- III. History, Economics and Politics.
- IV. Two languages other than English; one being a classical language already studied in the Intermediate Course; provided however that this restriction shall not apply if one of the two languages selected is Sanskrit and the other an Indian Vernacular.
- V. English Language and Literature.
- VI. Sanskrit Language and Literature.
- VII. Arabic Language and Literature.

Such Bachelor of Arts when qualified may, upon payment of a fee of Rs. 25, proceed to the Degree of M.A., after a lapse of five years from the date of his having passed the Intermediate Examination.

For the purpose of this Regulation a Bachelor of Science who has passed in Part II—Mathematics will be deemed to have satisfied the requirement of a pass in that subject in order to be eligible to appear for the M.A. Examination, provided that an interval of two years has elapsed from the date of qualifying for the B.Sc. Degree.

Nothing in this Regulation will, however, prevent a Master of Arts of this University from being allowed to appear for the M.A. Degree Examination in any one of the subjects prescribed for that examination upon payment of the prescribed fees.

Provided, however, that it shall be competent for the Syndicate to recognise the B.A. Degree Examination of the Andhra University as equivalent to the B.A. Degree

Examination of this University for purposes of enabling Bachelors of Arts of the Andhra University to appear for the M.A. Degree Examination of this University under the prescribed conditions. This Regulation shall be in force for a period of five years from the March—April Examinations of 1929, (i.e., to the end of the examination of March—April, 1933).

Subjects  
for Exa-  
minations

20. A candidate shall be examined in—

### *I. Mathematics*

Pure and Applied Mathematics in accordance with lists (a), (b) and (c) of subjects prescribed for candidates for the B.A. (Honours) Degree Examination in Regulation 16 (i) of this Chapter—i. Mathematics.

### *II. Philosophy*

II. Mental and Moral Science (1) Logic and Theory of Knowledge, according to a syllabus.

- (2) Either Psychology or Ethics, as the candidate may prefer, according to a syllabus.
- (3) Outlines of European Philosophy, according to a syllabus.
- (4) Outlines of Indian Philosophy, according to a syllabus.
- (5) A prescribed modern work dealing constructively with the general problems of Philosophy.

### *III. History, Economics and Politics.*

The subjects prescribed for candidates for the B.A. (Honours) Degree Examination in Regulation 16 (iii) of this Chapter—History, Economics and Politics, provided that candidates for the M.A. Degree Examination shall be restricted in their choice of optional subjects to those offered in each particular year by candidates for the B.A. (Honours) Degree Examination.

#### *IV. Two Languages other than English.*

**IV. Two Languages other than English** The course in each language, the text-books prescribed and the examination therein shall be identical with those prescribed for Branch (iv) mentioned in Regulation 8 of this Chapter, the provision for exemption from certain portions of the examination as set forth under Branch iv in Regulation 16 of this Chapter being applicable to such candidates for the M.A. Degree in Branch iv under Regulation 19 of this Chapter as have passed the B.A. Degree Examination in Group (vi).

#### *V. English Language and Literature.*

**V. English Language and Literature**

(a) The History of the English Language, Old and Middle English.

(b) The History of English Literature, Shakespeare, Modern English Literature.

#### *VI. Sanskrit Language and Literature*

*or*

#### *VII. Arabic Language and Literature*

**VI. Sanskrit Language and Literature**

**VII. Arabic Language and Literature**

The courses shall be identical with those prescribed for candidates for the B.A. (Honours Degree Examination in Regulation 16 (vi) or (vii) respectively of this Chapter, with the omission of Comparative Philology and Comparative Grammar.

**Examinations identical with B.A. (Honours)** 21. So far as provision is made in the foregoing regulation for subjects of examination corresponding with subjects offered by candidates for the B.A. (Honours) Examination, the examination for the Degree of Master of Arts shall be, in respect of the subjects and books offered and the question papers which candidates are required to answer in each year, identical with the final examination as conducted in that year in accordance with the regulations for the Degree of Bachelor of Arts (Honours) except that the paper set in History of the English Language shall not

include questions the answers to which involve a knowledge of Gothic. No candidate shall be required to undergo a *viva voce* Examination.

22. A candidate shall be declared to have passed the examination for the degree of Master of Arts if he obtains not less than 40 per cent of the total marks and not less than 30 per cent of the marks in any division of the examination in which a separate minimum is required, provided that the passing minimum in each division of the examination in Branch iv shall be as specified hereunder. All other candidates, shall be deemed to have failed in the examination. These divisions shall be as follows.

Divisions of the examina- tion	Branch I—(a) Pure Mathematics, (b) Applied Mathematics, (c) Optional Subject.
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**Branch II—**(a) Logic, and Psychology or Ethics,

(b) Outlines of European Philosophy and  
Outlines of Indian Philosophy, (c)  
General Philosophy and Essay.

**Branch III—A.** (a) Indian History and Constitutional History, (b) Politics and Economics, (c) Special Subjects.

**B.** (a) Economics (two papers); (b) Politics and Indian History, (c) Special Subjects.

**Branch IV—**(a) All the five papers in the first language, excluding the additional paper in Composition, as in Regulation 16 of this Chapter.

(b) The additional paper in Composition in the first language, as in Regulation 16 of this Chapter.

(c) All the five papers in the second language excluding the additional paper in Composition, as in Regulation 16 of this Chapter.

(d) The additional paper in Composition in the second language, as in Regulation 16 of this Chapter.

The passing minimum in each of the two divisions of the Examination in an Indian vernacular shall be 40 per cent, while, in other cases, it shall be 35 per cent in each of the two divisions.

Branch V—*English Language and Literature*—No divisions.

Branch VI or VII—(a) General part, (b) Special part.

Successful candidates who obtain not less than 60 per cent of the total marks shall be declared to have passed the examination in the *first* class; those who obtain not less than 50 per cent shall be declared to have passed in the *second* class; and those who obtain not less than 40 per cent shall be declared to have passed in the *third* class.

Classification  
of successful  
candidates.

#### SPECIAL REGULATIONS FOR THE M. A. DEGREE IN RESEARCH.

This Degree shall be called the Master of Arts Degree (M.A.), and will be awarded only to persons who do not come within the provisions of the Regulations for a first degree, who have shown exceptional aptitude for original research, and who have undertaken an approved course of special study and research in conformity with the conditions prescribed hereunder:—

23. A candidate for the Research Degree shall apply to the Registrar to be registered as a research student, stating in his application.

- (1) the special subject in which he intends to prosecute research, and
- (2) the name of the person who will supervise his research work, accompanied with a written consent of the latter agreeing to supervise that work.

He shall also produce a certificate of age and submit evidence of his qualification, attainments and previous study and research.

The application and thesis must be forwarded so as to be received by the Registrar between 1st November and 1st December of every year.

24. Every such application will be forwarded in the first instance to the Board of Studies concerned for opinion and remarks. If the Board recommended the application and the same be approved by the Syndicate, the candidate shall be registered as a research student. The application will not be recommended unless (1) the applicant's knowledge of English is of at least the Intermediate standard, (2) the course of research selected is such as can be conveniently pursued under the auspices of the University, and (3) the candidate produces such evidence as regards his general educational qualifications and special knowledge of his subject of research as could be deemed adequate for purposes of carrying on the same. The decision of the Syndicate shall be final.

25. A candidate so registered as a research student shall prosecute a course of special study or research for a period of not less than two years under a competent person approved by the Syndicate.

26. Within six months of the expiration of the second year every candidate shall submit to the Syndicate (together with a fee of Rs. 100) four copies of a thesis, printed or type-written in English, embodying the results of the research carried out by him, together with the report of the person deputed to supervise his work on the work done by him. He shall state, in a preface to the thesis, the sources from which he has derived information or guidance for his work, the extent to which he has availed himself of the work of others and the portions of the thesis which he claims as original. He shall also be required to declare that the thesis submitted is not substantially the same as one that has already been submitted for a degree at any other University.

27. The thesis shall be valued by a Board of Examiners consisting of the person who has supervised the research work and two others specially appointed for the purpose by the Syndicate. In addition to the written thesis, the candidate may, at the discretion of the Exami-

ners, be required to undergo an oral or practical test, or both, on the subject of the thesis. The examiners shall have power to take into consideration, along with the thesis, any related memoir or work published by the candidate which he may desire to submit to them.

28. If the examiner, do not approve of the thesis once submitted, the candidate may submit after an interval of not less than one year, a new or revised thesis, together with a similar fee of Rs. 100, and the procedure described above will be followed in respect of the second thesis.

29. If the Syndicate decide, after consideration of the report of the Examiners, the thesis to be one of sufficient distinction to entitle the candidate to the research degree, a resolution to that effect will be passed by the Syndicate, and communicated to the candidate who will be admitted to the degree under the usual conditions.

#### **DEGREE OF DOCTOR OF PHILOSOPHY (REGULATIONS)**

30. A Bachelor of Arts in Honours or Master of Arts of the University of Madras may offer himself as a candidate for the Degree of Doctor of Philosophy (Ph.D.) provided three years have elapsed from the time when he passed the examination for the Degree of Bachelor of Arts (Honours) or Master of Arts, as the case may be.

31. The candidate shall state in his application the special subject within the purview of the Regulation for the Degree of Bachelor of Arts (Honours) or Master of Arts, upon a knowledge of which he rests his qualification for the Doctorate, and shall, with his application, transmit three copies, printed or type-written, of a thesis that he has composed upon some special portion of the subject so stated, embodying the result of research, or showing evidence of his own work, whether based on the discovery of new facts observed by himself, or of new relations of facts observed by others, whether constituting an exhaustive study and criticism of the published work of others, or otherwise forming a valuable contribution to the literature of the subject dealt with, or tending generally to the advancement of knowledge. The candidate shall indi-

cate generally in the préface to his thesis and specially in notes, the sources from which his information is taken, the extent to which he has availed himself of the work of others, and the portions of the thesis which he claims as original; he shall further state whether his research has been conducted independently, under advice or in co-operation with others, and in what respects his investigations appear to him to tend to the advancement of knowledge.

32. The candidate may also forward with his application three printed copies of any original contribution or contributions to the advancement of the special subject professed by him, or of any cognate subject, which may have been published by him independently or conjointly, and upon which he relies in support of his candidature.

The application and thesis must be forwarded so as to be received by the Registrar between 1st November and 1st December of any year.

33. The thesis mentioned in Regulation 31 and the original contributions, if any, mentioned in Regulation 32 shall be referred by the Syndicate to a Board of three Examiners.

34. If the thesis is approved by the Board, the candidate shall not be required to submit to any further written examination; but he may be required by the Board, at their discretion, to appear before them to be tested orally with reference to the thesis and the special subject selected by him. The Board shall report to the Syndicate the result of the examination of the thesis and of the oral examination, if any; and if the Syndicate upon the report, considers the candidate worthy of the Degree of Doctor of Philosophy, it shall cause his name to be published, with the subject of his thesis, and the titles of his published contributions (if any) to the advancement of knowledge.

35. Every candidate shall be at liberty to publish his thesis and the thesis of every successful candidate may be published by the University with the inscription 'Thesis approved for the Degree of Doctor of Philosophy in the University of Madras.'



## \*CHAPTER XXXV

**Degrees of Bachelor of Science, Bachelor of Science (Honours), Master of Science and Doctor of Science.**

1. Undergraduates who have passed the Intermediate Examination in Arts and Science and desire to proceed to a degree in Science shall undergo a further course of study varying in length according as they intend to proceed to the Bachelor of Science Degree Examination or to the Bachelor of Science (Honours) Degree Examination.

**DEGREE OF BACHELOR OF SCIENCE.***A. Courses of Study.*

2. For the B.Sc. Degree the course shall extend over a period of two years and shall comprise instruction in—

**Part I. English.**

Part II. Any three of the following branches of knowledge one of which shall be a main subject and the other two be subsidiary subjects.

- |                 |              |
|-----------------|--------------|
| i. Mathematics. | iv. Botany.  |
| ii. Physics.    | v. Zoology.  |
| iii. Chemistry. | vi. Geology. |

3. The courses of study shall be as defined in the syllabuses detailed below:—

**Part I. English.**

(1) Composition. (2) Nineteenth Century Prose as prescribed for candidates for the B.A. Degree.

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\* Regulation, under the University Act of 1904 (now repealed) which, so far as they may be applicable, continue to be in force until they are replaced by the Statutes, Ordinances and Regulations to be framed under the Act of 1923.

## Part II.

## i. Mathematics.

*Main.*

In addition to the subjects prescribed under (a) Mathematics in Group (i) of the Intermediate Examination, the course will comprise Algebra, Plane Trigonometry, Analytical Geometry, Elements of the Calculus, Dynamics and Astronomy.

## Pure Mathematics.

*Algebra*

Inequalities. Limits. Elementary theorems in convergence and divergence of series. The Binomial Theorem for any rational index. Exponential and Logarithmic series. Partial fractions. Elementary methods for the summation of series. Elementary properties of simple continued fractions. Intermediate equations of the first degree. Elementary properties of Determinants.

Typical graphs .  $y = ax^n$ ,  $y = \frac{a}{x^n}$ ,  $y = ax + b + \frac{c}{x}$ ,  $y =$

$$ax + b + \frac{c}{x^2}.$$

Graphical solution of cubic and biquadratic equations.

General properties of the equation of the  $n$ th degree and its roots and co-efficients. Simple transformations of equations. Reciprocal equations. Approximate solution of numerical equations.

*Trigonometry*

Fuller treatment of the Intermediate course. Quadrilaterals inscribed in and circumscribed about circles. Regular polygons. Limits of  $\sin x/x$  and  $\tan x/x$  as  $x$  tends to zero. De Moivre's theorem and its immediate applications. Summation of elementary trigonometrical series.

*Analytical Geometry*

The Cartesian equations of the straight line and the circle referred to rectangular axes; the parabola, ellipse and hyperbola referred to their principal axes; and the rectangular hyperbola referred to its asymptotes. The general equation of the second degree. The polar equations of the straight line, circle and the conic. Simple problems on the above.

*The Calculus*

Standard forms and fundamental processes of differentiation and integration. Simple applications of the derivative to geometry, algebra, dynamics and physics. Maxima and Minima values of a function of one variable. Theorem of mean value (graphical proof). Approximations and small errors. Curvature, Cartesian formulæ for the radius of curvature. Integration by substitution. Integration by parts. Integration regarded as summation, with simple applications to areas, volumes and surfaces and to dynamics. Solution of the differential equation of simple harmonic motion.

**Applied Mathematics.***Dynamics*

Resolution and composition of displacements, velocities, and accelerations. Curves of speed and velocity diagrams. Motion of a particle in one plane under constant acceleration. Simple harmonic motion; composition of simple harmonic motions. Angular velocity and angular acceleration: moment of velocity.

Absolute units of force. Resolution and composition of forces. Angular momentum; moments of inertia in simple cases; the pendulum; determination of  $g$ . Work, energy, conservation of energy; energy diagrams. Impact; the ballistic pendulum. Simple cases of the dynamics of strings. Dimensions of dynamical units.

Conditions of equilibrium of a body acted on by forces in one plane. Moments, couples. Centre of mass.

The theory of simple machines. Laws of friction. Graphical methods with simple applications.

### *Astronomy*

The apparent motion of the heavens. Circumpolar stars. The principal constellations and the most conspicuous stars.

The celestial sphere.—Points and lines on it. Horizon, zenith, poles, meridian, etc., the equinoctial points, etc.

Celestial co-ordinates.—Right ascension, declination, etc., latitude and longitude.

The transit circle, the equatorial, the clock. The transit theodolite. The sextant and chronometer.

Phenomena depending on change of latitude and longitude of the observer. Magnitude of the earth.

The apparent annual motion of the sun. The constellations of the zodiac. The ecliptic and its obliquity. The equinoxes and the solstices. The earth's motion round the sun. The seasons.

Sidereal time. Apparent solar time. Mean solar time. Equation of time. Standard time (India). Civil and astronomical reckoning. Conversion of time.

Explanation of astronomical refraction and parallax. Twilight.

Determination by observation of clock error and rate of right ascension and declination of a heavenly body, and of the latitude and longitude of a station.

The solar system, and the motion of the planets. Kepler's laws. Comets and meteors.

The motion of the moon and her phases. The plane of her orbit. The nodes and their motion. The moon's sidereal and synodic periods. Her diameter and distance.

Distances and magnitude of the sun, moon and planets.

Cause of the eclipses of the sun and moon. Ecliptic limits. Number of eclipses in a year.

The Calendar. The use of the Nautical Almanac.

### Subsidiary.

Same as those prescribed for B.A.

### ii. Physics.

#### *Main.*

(The treatment of the subjects in the following course will require a knowledge of the simple applications of the calculus) :—

Dynamics	... as in the B.A. (ii-A) Course
Properties of matter ...	" "
Hydrostatics ...	" "
Heat ...	" "
Light	... as in the B. A. (ii-A) Course with 'Achromatism in lens systems' deleted and the following added 'Cardinal points of thick lenses and simple lens systems. Simple cases of astigmatism, spherical and chromatic aberration.'
Magnetism	... as in the B.A. (ii-A) Course
Electricity ...	" "
Sound ...	" "
Practical Physics ...	" "

At the practical examination candidates must submit to the Examiner or Examiners their laboratory notebooks duly certified by the professors or lecturers as a *bona-fide* record of work done by the candidates.

Each note-book must be countersigned by the professor or professors under whom the candidate has worked to certify it to be a *bona-fide* record of work done by the candidate.

## ii. Physics.

### *Subsidiary.*

Same syllabus as for B.A. (ii-B) Subsidiary Physics.

## iii. Chemistry.

### *Main.*

#### (a) *Chemistry—General and Historical.*—

The atomic theory, Valency. Methods of determining equivalent, atomic and molecular weights. Atomic Numbers. Isotopes. Properties of gases. Transition phenomena from the gaseous to the liquid state. Properties of solutions, osmotic pressure; vapour pressure and freezing and boiling points. Velocity of reactions and the law of Mass Action; Phase rule. Theories of the Colloidal state, theory of electrolytic dissociation. Transport members, Conductivity and electro-motive force. Thermo-Chemistry. Relation of physical properties to chemical constitution.

#### (b) *Inorganic Chemistry:*—

The descriptive portion of Inorganic Chemistry will include the elements and their compounds studied from the standpoint of the Periodic classification omitting the detailed study of rare metals and their compounds.

#### (c) *Organic Chemistry.*—

Historical development of the Science—Methods of Purification and the criteria of purity of organic compounds—Analysis of organic compounds. Calculation of empirical and molecular

formulae. Constitutional formulae. Isomerism and Polymerism.

Paraffins; halogen substitution products. Alcohols. Alkylesters of inorganic acids; Ethers. Aldehydes and ketones, and their derivatives. Fatty acids; their esters, chlorides, amides and anhydrides. Olefines and acetylenes. Unsaturated alcohols. Aldehydes, ketones and acids. Amines. Urea and Urethanes. Cyanogen compounds. Organo-metallic derivatives. Glycol and Glycerol and their derivatives. Dibasic acids of the Oxalic series. Hydorxy monobasic and polybasic acids. Stereoisomerism of carbon compounds. Diketones and ketonic acids and esters. Amino acids and polypeptides. Sugars, starches and celluloses Polymethylenes.

Benzene and its homologues. Chloro-nitro-amino- and sulphonic derivatives of aromatic hydrocarbons. Phenols, Azoxy-Azo and Hydarxo compounds. Diazo-bodies and their reactions. Benzyl alcohol. Benzaldehyde. Benzoic acid and their derivatives. Acetoyhenone and Benzophenon and their derivatives. Polysubstitution products, e.g., di-and triphenols, etc., and polycarbohic acids, hydroxy-aldehydes, Hydroxy ketones. Hydroxy acids.

Laws of Orientation of aromatic substitution products. Diphenyl methane, phenyl ethylene and Diphenyl ethylene and their derivatives. Triphenyl methane, phthaleins and rosanil'nes. Naphthanene. Anthracene and Phenanthrene and their chief derivatives.

(d) *Practical Chemistry.*—

- (1) Qualitative analysis, including analysis of mixtures of mineral substances.
- (2) Quantitative analysis, including (a) the estimation of alkalis, alkaline carbonates, and

acids by neutralization, (b) determinations involving the use of the permanganate, dichromate, iodine and thiosulphate processes, (c) the estimation of chlorides and cyanides by titration with silver nitrate, and also with thiocyanate, (d) gravimetric determinations of iron, calcium, copper, silver, lead, sulphuric acid, hydrochloric acid, phosphoric acid.

Candidates at Examinations will be required to be able to standardize the solutions for volumetric analysis.

- (3) The determination of molecular weights.
- (4) Preparation of at least six simple organic substances, e.g., chloroform, Ether, Ethyl acetate, acetic anhydride, Urea, Nitrobenzene, aniline, Phenol, Benzoic acid (from Toluene) Iodobenzene, salicylic acid, an azo-dye, etc.
- (5) Identification by chemical and physical tests of the following organic compounds:—

Methyl and Ethyl alcohols; acetone; chloroform; Formic, acetic, oxalic, tartaric, citric Benzoic and phthalic acids; ethyl acetate and ethyl benzoate; urea, glucose, Benzene and Toluene, aniline, Phenol, Resorcinol, Pyrogallol, Benzaldehyde, acetophenone, Naphthalene and Naphthols.

### Subsidiary

The Syllabus will include:—

#### (a) General Chemistry:—

The Atomic theory, Valency, Properties of solutions; osmotic pressure; Vapour pressure and freezing and boiling points. Velocity of reactions and the Law of Mass Action. Theory of electrolytic dissociation; transport num-



bers; conductivity. Thermo-chemistry, Relation of physical properties to chemical constitution.

(b) *Inorganic Chemistry*.—

The common elements studied in an elementary way from the standpoint of the periodic classification.

(c) *Organic Chemistry*.—

Historical development of the Science. Purification of organic compounds, Qualitative and quantitative analysis, Isomerism, Polymerism.

Methane, ethylene, acetylene, methylhalides, methyl alcohol, ethyl alcohol, ether, acetaldehyde, acetone, acetic acid, ethyl acetate, acetamide, oxalic acid, glycerine, amines, fats, oils and soaps.

Benzene, nitrobenzene, aniline, Diazotisation, phenol, Toluene, benzyl alcohol; benzaldehyde, benzoic Acid.

(d) The course in Practical Chemistry shall be the same as that prescribed for the present B.A. (II-A) candidates.

#### iv. Botany.

##### *Main.*

1. The main points of structure, development, life history and the taxonomic relation of the following groups in general and the Genera in particular:—

*Bacteria*, *Cyanophyceae* (*Oscillaria*, *Nostoc*, and *Rivularia*) *Conjugatae* (*Spirogyra* *Deysmids*), *Diatomaceae*, *Chlorophyceae* (*Chlamydomonas*, *Eudorina*, *Pandorina*, *Volvox*, *Enteromorpha* or *Ulva*, *Coleochaete*, *Ulothrix*, *Oedogonium*, *Cladophora*, *Hydrodictyon*, *Caulerpa* and *Protosiphon*), *Phaeophyceae* (*Ectocarpus*, *Laminaria*, *Fucus* and *Sargassum*), *Rhodophyceae* *Lemanea*,

Dudresnaya, Polyides), *Characeae* (Nitella or Chara), *Phycomycetes* (Pythium, Mucor), *Ascomycetes* (Sphaerotheca or Erysiphe, Penicillium, Claviceps, Peziza); *Basidiomycetes* (Agaricus, Lycoperdon, Ustilago, Puccinia), *Muscineae* (Plytrichum, Funaria, Marchantia Riccia), *Eusporangiatae* (Ophioglossum), *Leptosporangiatae* (*Filices* and *Hydropterideae*), *Lycopodium*, *Selaginella*, *Gymnosperms* (Pinus, Cupressus and Cycas).

2. The external morphology of flowering plants.

3. The general principles of classification and the distinguishing characteristics of the following Natural Orders as used in the Flora of British India:—

Ranunculaceæ.	Papilionaceæ.
Anonaceæ.	Caesalpiniæ.
Menispermaceæ.	Mimoseæ.
Nymphæaceæ.	Rosaceæ.
Cruciferae.	Combretaceæ.
Capparidæ.	Myrtaceæ.
Caryophyllaceæ.	Lythraceæ.
Guttiferae.	Cucurbitaceæ.
Malvaceæ.	Umbelliferae.
Sterculiaceæ.	Rubiaceæ.
Tiliaceæ.	Compositæ.
Geraniaceæ.	Sapotaceæ.
Rutaceæ.	Oleaceæ.
Meliaceæ.	Apocynaceæ.
Rhamnæ.	Asclepiadæ.
Sapindaceæ.	Boraginæ.
Anacardiaceæ.	Convolvulaceæ.
Solanaceæ.	Laurinæ.
Scrophularinæ.	Orchidæ.
Acanthaceæ.	Scitamineæ.
Labiatae.	Amaryllidæ.

Verbenaceæ.

Liliaceæ.

Amarantaceæ.

Commelinaceæ.

Loranthaceæ.

Palmeæ.

Euphorbiaceæ.

Aroideæ.

Urticaceæ.

Cyperaceæ.

Piperaceæ.

Gramineæ.

#### 4. *Physiology.*

The chemical composition of the plant. Materials of plant food and their sources. The nature of soil and importance of its constituents and micro-organisms. Movement of water and gases. Assimilation of carbon and nitrogen. Transpiration and translocation of the assimilated products. Metabolism. Parasitism and other special modes of nutrition. Respiration. The influence of light, heat and gravity. Growth, movements and irritability in plants. Sexual reproduction and its significance. Vegetative reproduction. The phenomena of cross-fertilization. Variation, Heredity and Mendelism. Theories of Evolution and Origin of Species.

#### 5. *Histology.*

The structure and modes of the division of the cell, and the nature of its contents. The nature and mode of origin of plastids, cell sap and other cell contents. The physical and chemical properties of protoplasm and cell-wall. The origin, nature and development of plant tissues. Primary and secondary tissues, and their distribution in the plant body.

#### *Practical Work.*

Candidates are expected to be able to make preparations illustrating the form and structure of any plant of the Groups or Orders mentioned in the syllabus and to describe them with sketches sufficient for their identification: to make dissections with the simple microscope of the floral parts of phanerogams, and to make drawings, construct floral diagrams and refer them to their Natural

Orders; to describe in technical language plants belonging to any of the Orders or Groups specified in the syllabus.

At the practical examination each candidate must submit his laboratory note-books and a collection of named plants collected and preserved by himself.

### Subsidiary.

- (1) The structure and life history of the following:—

*Bacteria, Oscillaria, Nostoc, Chlamydomonas, Pandorina, Eudorina, Pledorina, Volvox, Ulothrix, Guladorphora, Oedogonium Spirogyra, Desmids, Diatoms, Ectocarpus, Fucus or Sargassum, Polysiphonia Gracillaria, Nitella or Chara, Phytophthora, Rhizopus, Penicillium, Peziza, Puccinia, Agaricus, Riccia, Marchantia Mosses, Selaginella, Fern, Marsillia, Cycas, Pine.*

- (2) External Morphology of Flowers.

- (3) The general principles of classification and the distinguishing characteristics of the following families:—

*Anonaceæ, Nymphaeæ Leguminosæ, Capprideæ, Malvaceæ, Sterculiaceæ, Tiliaceæ, Geraniaceæ, Rutaceæ, Meliaceæ, Rhamnaeæ, Combretaceæ, Myrtaceæ, Lythriveæ Cucurbitaceæ, Umbelliferæ, Rubiaceæ, Compositæ, Apocynaceæ, Asclepiadaceæ, Convolvulaceæ, Solanaceæ, Acanthaceæ Labiataæ, Amaran-taceæ Euphorbiaceæ, Urticaceæ, Lilaceæ, Amaryllideæ, Scitamineæ, Orchideæ Palmaceæ, Cyperaceæ, Gramineæ.*

- (4) Plant Physiology:—

Chemical composition of the plant. Soil and its nature. Photosynthesis. Transpiration. Respiration. Metabolism, Heterotrophic Plants, Growth, Movements, Irritability, Reproduction (Sexual and Asexual) Cross and Self Fertilization, Variation, Heredity and Mendelism. Theories of Evolution and the Origin of Species.

- (5) Histology:—

Cell structure and Cell division, plastids, Cell-sap, other Cell contents, the origin, nature and development of

Plant-tissues. Primary and Secondary tissues and their distribution in the plant body.

## v. Zoology.

### *Main.*

*The Scope of Zoology.*—The leading features in the structure, the most important points concerning the development, the affinities, and the general classification of the forms included in the following groups (except in rare cases, no knowledge of extinct forms will be required).

Protozoa. Porifera. Cœlenterata. Platyhelminia. Nemertini. Nematoda. Acanthocephala. Chaetognatha. Rotifera. Branchiopoda. Annelida. Phoronidea. Polyzoa. Arthropoda. Mollusca. Echinodermata. Chordata.

A general acquaintance with the Vertebrate fauna of South India.

The geographical distribution of the more interesting groups of the Chordata. Outlines of the theory of organic evolution. Evidences on which the theory is based.

Candidates will be required to examine, describe, identify, or otherwise deal with specimens and preparations illustrating points of zoological interest in connection with any of the preceding groups. They will, in addition, be expected to have a full practical knowledge of the structure, and will be required to make dissections and simple microscopical preparations, of any of the following types:—

Amœba. Vorticella. Hydra. Earthworm. Leech. Prawn and Crab (external characters). Scorpion. Centipede (external characters). Cockroach. Freshwater Mussel. Amphioxus (preparations and sections). Dogfish (skeleton). Frog. Pigeon. Hare or Rabbit.

Candidates may also be examined by *viva voce* questions.

### **Subsidiary.**

Same Syllabus as for B.A.

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vi. **Geology.**

*Main.*

- I. Physiography.
- II. Mineralogy and Crystallography.
- III. Petrology.
- IV. Structural and field Geology.
- V. Stratigraphy and Palæontology.

I. **PHYSIOGRAPHY.**

An elementary course of lectures on the following:—

The earth as a planet, its general relations to the other members of the solar system; hypotheses as to the origin of the earth; form, size and density of the earth; its movements and their effects.

The Atmosphere—its composition, height, density, pressure, temperature, moisture and movements; weather; refraction, twilight and aurora-borealis.

The Hydrosphere—its composition, extent and distribution, depth, temperature and movements.

The Lithosphere—the chief constituents of the earth's crust, the general characters and mode of occurrence of igneous and sedimentary rocks. Condition of the interior of the earth.

*Agents of Geological change.*—The hypogene and epigene agents of geological change, manner and results of their action, especially as influencing earth-sculpture—the destruction, construction, and gradual evolution of the crust of the earth and of its surface features.

Fossils, the main conditions favourable for their formation and preservation and their value as interpreters of the past history of the earth.

Climates—their causes and distribution; glacial epochs,

Simple facts about the geographical and geological distribution of the chief types of plant and animal life. Antiquity of man. Views as to the age of the earth's crust.

## II. MINERALOGY AND CRYSTALLOGRAPHY

Symmetry; lines, planes and axes of Symmetry; laws of Crystallography; the common holohedral, hemihedral and hemimorphic crystal forms and combinations under each of the six crystal systems; the more important types of twins and twinning; drawing of the more important crystal forms; systems of crystal notation, use of the contact Goniometer.

The principal physical properties of minerals which aid in the recognition of the various mineral species.

Isomorphism, paramorphism, pseudomorphism and dimorphism.

The chief characteristics of all the more abundant minerals, including both those which are of geological interest and those of commercial value, their modes of occurrence and uses.

The practical determination of the chief physical and chemical properties of the commoner ores and minerals, including the use of the blowpipe.

## III. PETROLOGY.

The classification and distribution of rocks, and the composition, structure, texture, origin and mode of occurrence of all the more important types and their metamorphic and altered forms.

### Contact and Regional Metamorphism

The macroscopic and microscopic examination of rocks, including the determination of the simpler optical characters of the chief rock forming minerals in parallel polarized light. Preparation of diagrams or sketches to represent features observed in rock sections under the

microscope. Construction and use of a simple petrological microscope.

#### IV. STRUCTURAL AND FIELD GEOLOGY.

The more important lithological and structural features of rocks, their origin or formation; structure of mineral veins. Diagrammatic sketches of the above.

Construction and interpretation of geological maps and sections. Tracing of outcrops. Simple problems in structural geology.

#### V. STRATIGRAPHY AND PALÆONTOLOGY.

The chief petrological and palæontological characters of the main geological divisions and their Indian representatives and the probable physical conditions under which they were formed.

Fossils, their nature and preservation. The main groups of vegetable and animal life and their distribution in time.

The characters, classification and distribution of the more important types of fossils—especially Indian; identification and sketching of fossils; causes for the imperfection of the geological record; the general succession of life as revealed thereby and the general evidence furnished in support of evolution; principles of correlation; Homotaxis.

#### VI. PRACTICAL EXAMINATION

The knowledge of the candidate in accordance with the syllabus will be tested also by practical examinations. *Viva voce* questions may be asked. Some acquaintance with field work is necessary.

#### Subsidiary

*Mineralogy*:—The more important rock-forming minerals, their composition and general physical characters and their characteristic alteration products. An elementary knowledge of crystallography is expected.



**Petrology**:—Origin, Classification and the distinctive characters of the leading types of sedimentary, igneous and metamorphic rocks.

**Physical Geology**:—The general nature and relation of the main agents of geological changes, epigene and hypogene and their action.

**Structural Geology**:—Elementary knowledge of rock-structures, stratification, dip, strike, outcrop, outlier, inlier folds, faults, cleavage, joints unconformity and overlap. Surface-features as influenced by the nature and disposition of the rocks; water supply.

**Stratigraphical Geology**.—Rocks as embodying the History of the earth; fossils, their mode of formation and value in Geology and also in the biological sciences; the order of superposition; the geological record, its general conclusions relating to former changes in the physical features of the earth and also in the character of the organic forms; the order of succession of plant and animal life on the surface of the globe; the theory of evolution.

The practical examination may include the interpretation of maps and tectonic models and drawing of sections across them, of representations of scenery and also the identification and description of the more important types of minerals, rocks and fossils.

Candidates will be expected to show some acquaintance with field work.

### *B. Examinations*

4. (a) No candidate shall be eligible for the degree of Bachelor of Science until he has passed the examination in Part I—English and in Part II, viz., three of the optional branches of knowledge contained in the courses of study.
- Eligibility for the Degree**

(b) No candidate shall be admitted to the examination unless he has passed the Intermediate Examination in Arts and Science in this University or an examination accepted by the Syndicate as equivalent thereto.

**Admission to Examination** 5. A candidate for the B.Sc. Degree Examination may present himself for Part I at the end of the first year of the course and thereafter may at his option present himself for the whole or for either Part at any one time.

**Appearance at Examinations — whole or for parts** 6. A candidate who fails to pass the examination in Part II on the first occasion on which he presents himself for examination shall produce on the next occasion on which he presents himself for the examination a certificate of having attended in an affiliated college an additional year of instruction in each of the three selected optional branches of knowledge.

**Failed candidates to produce additional certificate** 7. A candidate shall be declared to have passed Part I of the examination if he obtains not less than 40 per cent of the total number of marks. A candidate shall be declared to have passed Part II of the examination if he obtains not less than 40 per cent of the total marks, and not less than 30 per cent in each of the three selected optional branches of knowledge. All other candidates shall be deemed to have failed in the examination.

**Marks qualifying for a pass** There shall be separate lists of the successful candidates in each Part. Candidates obtaining not less than 60 per cent of the total marks in Part I shall be declared to have passed with distinction in English.

**Classification of successful candidates.** Successful candidates in Part II shall be arranged in three classes.—The *first*, consisting of those who obtain not less than 60 per cent; the *second*, of those who obtain not less than 50 per cent; and the *third*, of the remainder.

## DEGREE OF BACHELOR OF SCIENCE (HONOURS).

*A. Courses of Study*

8. For the B.Sc. Honours Degree the course shall  
**Courses of** extend over a period of not less than three  
**Study.** years, and shall comprise instruction in—

Part I English.

Part II

*Either.*

one of the following branches of knowledge:—

- i. Mathematics,
- ii. Physics with Chemistry as a subsidiary subject,
- iii. Chemistry with Physics as a subsidiary subject,

*or*

one of the following as main subject and any other two of those prescribed for the B.Sc. Degree as subsidiary subjects:—

- iv. Botany.
- v. Zoology.
- vi. Geology.

9. The course of study in English and in the subsidiary subjects in the case of students taking iv, v or vi as the main subject shall be the same as for the B.Sc. Degree. The courses of study in the main subject are as detailed below:—

**i. Mathematics.**

A candidate shall be required to have a sound knowledge of—

**1. Mathematics.**

**(a) Pure Mathematics:**

- 1. Pure Geometry including Projective Geometry.
- 2. Algebra and Theory of Equations.

### 3. Plane Trigonometry.

4. Differential and Integral Calculus, including Reimann integration. Cauchy's theorem on Contour integration and Fourier's series.
5. Elementary Differential Equations.
6. Co-ordinate Geometry of two dimensions.
7. Solid Geometry—The line, plane, sphere and surfaces of the second degree.

### (b) Applied Mathematics:

1. Statics, excluding the theory of potentials.
2. Dynamics of a Particle.
3. Dynamics of a Rigid Body—motion in two dimensions.
4. Hydrostatics.
5. Astronomy, general and elementary spherical.

(c) Two of the following subjects at the option of the candidate:—

1. Dynamics	...	...	A special subject.
2. Astronomy	...	...	Do.
3. The Potentials	...	...	Do.
4. Elasticity	...	...	Do.
5. Hydrodynamics and Sound			Do.
6. Heat	...	...	Do

A candidate shall give notice, through his college, a year before the date of the examination, of the particular subjects he proposes to take.

Three papers shall be set in Pure Mathematics, three in Applied, and one in each of the optional subjects selected. Each paper shall be of three hours' duration and shall contain questions on the principles developed in the ordinary treatment of the subject as well as exercises of moderate difficulty arising therefrom.

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## ii. Physics.

A candidate shall be required to have a sound knowledge of the experimental side of the following subjects, and also such knowledge of the theoretical side of each as may be obtained by the applications of the calculus, and simple differential equations:

Properties of matter.

Heat.

Geometrical and Physical Optics.

Sound.

Magnetism and Electricity.

A candidate shall also be required to have a special knowledge, experimental and theoretical, of *one* of the following subjects, the choice of the subject being left to the option of the candidate:—

Thermodynamics.

Theory of Heat Conduction.

Kinetic Theory of Gases and its applications..

Theory of Electricity and Magnetism.

Radio activity.

Theory of Sound.

Wave Theory of Light.

Radiation: Electromagnetic and other theories.

A candidate shall give notice, through his college, a year before the date of the examination, of the particular subject he proposes to take.

The knowledge of the candidate shall be tested by a practical examination, in which he will be expected to make physical measurements and observations of the more advanced kind.

Each candidate shall submit his laboratory note-books containing the record of all his practical work performed during the period of study for the examination. The record shall be countersigned by the professor or professors under whom the candidate has worked to certify it to be a *bona-fide* record of work performed by the candidate. It shall be submitted on the first day of the practical examination to the examiners engaged in conducting the examination.

*Chemistry.*—The course shall be the same as that prescribed for students taking the course in ii-A for the B.A. Degree.

### iii. Chemistry.

*Chemistry.*—A candidate shall be required to show  
iii. **Chemistry** that he has made a more comprehensive study than for the B.A. degree, of the four main divisions of the subject:—

1. General theoretical Chemistry including its historical development.
2. Chemistry of the non-metals and metals.
3. Chemistry of the carbon compounds.
4. Physical Chemistry.

A candidate shall also be required to have a special knowledge, experimental and theoretical, of *one* of the following subjects, the choice of subject being left to the option of the candidate:—

- (a) Electro-Chemistry.
- (b) Mineralogy and Elementary Crystallography.
- (c) Elementary Crystallography and Stereochemistry.
- (d) Metallurgical Chemistry.
- (e) Tinctorial Chemistry.
- (f) Bio-Chemistry.
- (g) Chemistry of the rare earths and radio-elements.

A candidate shall give notice, through his college, a year before the date of the examination, of the particular subject he proposes to take.

The candidate shall be required to be practically familiar with the ordinary methods of experiment, and of the methods of analysis in common use, including the manipulation of gases. The examination shall also include the estimation of carbon, hydrogen, nitrogen, sulphur and the halogens in organic compounds; and the determination of molecular weights by the freezing and boiling point methods, and by vapour density.

The candidate shall submit his laboratory note-books containing the record of all his practical work performed during the period of study for the examination. The record shall be countersigned by the professor or professors under whom the candidate has worked to certify it to be a *bona-fide* record of work performed by the candidate. It shall be submitted on the first day of the practical examination to the examiners engaged in conducting the examination.

*Physics.*—The course shall be the same as that prescribed for students taking the course in (ii.B) for the B.A. Degree.

#### iv. BOTANY.

In addition to the course prescribed  
iv. Botany for the B.Sc. Degree the following:—

1. A fuller knowledge of the flowering plants of India and especially of South India, with regard not only to systematic relationships, but also to ecology distribution and relationships with those of neighbouring areas.
2. A general knowledge of the principles of the systematic arrangement of flowering plants as exemplified in the *Genera Plantarum* and in *Die Natürlichen pflanzenfamilien*.
3. The chief botanical sources and commercial application of the following economic products of India:—Cotton,

- jute and other fibres; vegetable oils: sugars: wood pulp; rubber: tannin: alkaloids.
4. A fuller knowledge of fungi especially with reference to their economic importance.
  5. Methods of plant histology and plant physiology.
  6. A general knowledge of Vascular Cryptogams and Gymnosperms and of palæobotany, especially with reference to the relationships of modern groups.
  7. Some acquaintance with current botanical literature and with the History of Botany.

Candidates will be required to present as a special subject one of the sections numbered 1, 3, 4, 5 and 6, and each candidate must give notice through his college, a year before the date of examination, of the particular subject, he proposes to present.

The practical examination for the B.Sc. Honours Degree may include—

1. The identification of Indian plants with the help of a FLORA or any other books allowed by the Examiners.
2. The preparation and correct interpretation of microscopic sections of plants.
3. The examination of a diseased or abnormal plant.
4. Practical Physiology and *viva voce* questions.

Every candidate will be required to submit a collection of named flowering plants, collected and preserved by himself. There may be also plants of one of the other main divisions of the vegetable kingdom.

#### V. ZOOLOGY.

The course shall be more complete than that for the B.A. Degree. The candidate will in addition to the scheme already outlined, be expected to have a knowledge of minor groups like the Mesozoa, the more important groups of extinct animals, the early development of the chick and the

v. zoology



outlines of vertebrate embryology and to go into the classification more fully. The practical work will not be confined to the types enumerated. The candidate may be required to dissect any of the more common types of animals included in the classes they study, to identify specimens with the aid of manuals, to report upon zoological collections, to make microscopical preparations, to cut sections with the microtome, and to show their practical acquaintance with the methods employed in studying the embryology of the chick. Candidates may also be examined by *viva voce* questions.

## vi. Geology.

### vi. Geology

The syllabus of the B.Sc. Degree course treated more fully with the following additions:—

*Mineralogy and Crystallography.*—The thirty-two types of crystal symmetry, theories of crystal structure, systems of crystal notation, zonal characters, crystal projections and drawing; twin crystals, grouping and irregularities of crystals, parting planes, percussion figures, etched figures, etc. Use of the Reflecting Goniometer. General mathematical relations of crystals and measurement of crystal angles.

Description and determination of minerals by chemical and physical tests.

The chief ores and minerals of commercial value; their distribution, occurrence, with special reference to Indian examples, and their uses; nature and structure of chief types of ore deposits.

*Petrology.*—The principles underlying the genesis and classification of rocks. Mechanical separation of rock constituents; examination of sands; methods of the preparation of rock sections for the microscope. Optical properties of crystals. Practical determination of the optical characters of the chief rock forming minerals with the petrological microscope, including the use of convergent light. Determination of the nature and history of rocks by means of the microscope.

*Structural and Field Geology.*—The relationships of structure of relief, drainage and economics. The composition and structure to rock masses as influencing scenery. Weathering and formation of soils. Each candidate is required to map and describe from his own personal observations the geology of an area elected by himself with the approval of the Professor.

*Stratigraphy and Palæontology.*—The geological formations with their lithology, sub-divisional fossils, correlation and economics. The physical geography and vulcanicity of the different periods. General distribution of existing faunas and floras and their relation to those of former geological periods; morphological characters of the more important types of fossils; drawing of fossils; Geology of India brought up to date.

The knowledge of the candidate will be tested also by practical examinations. *Viva voce* questions may be asked.

### *B. Examinations.*

10. No candidate shall be eligible for the B.Sc. (Honours) Degree until he has passed an examination in English and in one of the six branches of knowledge and prescribed combinations of subjects detailed in the courses of study.

11. The examination in Part I (English) shall be that for the B.A. and B.Sc. Degrees in (1) Nineteenth century prose, and (2) Composition on additional set books. A candidate shall be declared to have passed if he obtains not less than 40 per cent of the total marks for the two papers taken together; candidates obtaining not less than 60 per cent shall be declared to have passed with distinction. All other candidates shall be deemed to have failed in the examination.

12: No candidate shall be admitted to the examination in Part I (English) unless he has passed the Intermediate Examination in Arts and Science in this University or an examination in some other University recognized by the Syndicate as equivalent thereto.

13. A candidate who is taking one of the three subjects, Botany, Zoology, or Geology as his **Examination in subsidiary subjects** main subject, may appear for the examination in the subsidiary subjects at the end of the second year of the course. He shall not be admitted to the examination unless he has passed the Intermediate Examination in Arts and Science in this University, or an examination in some other University accepted by the Syndicate as equivalent thereto.

14. The examinations in Botany, Zoology and Geology taken as subsidiary subjects shall be the **Admission to the Final Examination** examinations in those subjects for the B.Sc. Degree. No candidate failing to pass the B.Sc. Degree Examination in the two subjects taken as subsidiary shall be admitted to the final examination in his main subject.

15. On the first day of the practical examination in his main subject every candidate shall **Laboratory note book** submit his laboratory note-books containing the drawings and other record relating to all his practical work performed during the period of study for the examination. The record shall be countersigned by the professor or professors under whom the candidate has worked and shall be certified to be a *bona-fide* record of work performed by the candidate.

16. A candidate for the B.Sc. (Honours) Degree who has passed the B.Sc. Degree Examination shall be permitted to appear for the B.Sc. (Honours) Degree Examination after a further two years' course in an affiliated college, provided he has passed the B.Sc. Degree Examination in the subjects for which he desires to appear. He shall be exempted from passing the Part I examination in English, and from the examination in the subsidiary subject or subjects, and shall be credited with the percentage of marks which he obtained in those subjects in the B.Sc. Degree Examination.

17. A candidate for the B.Sc. (Honours) Degree shall appear for the final examination in Part II not later than the end of the fourth year after he **Time limit for appearance at Final Examinations**

has passed the Intermediate Examination in Arts and Science.

**Permitted to appear only once** 18. No candidate shall be permitted to undergo the complete final examination in Part II for Honours more than once.

**Candidates for Honours recommended for B.Sc. Degree** 19. In the event of a candidate for the B.Sc. (Honours) Degree failing to satisfy the Examiners in Part II of the examination he may be recommended by them for the B.Sc. Degree, provided that he has passed in Part I (English) and obtains not less than  $33\frac{1}{3}$  per cent of the total marks and not less than 25 per cent in each division of the examination in Part II.

**Candidates failing in Honours may appear for B.Sc. privately** 20. A candidate not already eligible for the B.Sc. Degree, who, having failed completely in the B.Sc. (Honours) Degree Examination, desires to appear for the B.Sc. Degree Examination, shall be allowed to do so without the production of a further certificate of attendance in an affiliated college in the subjects in which he has already appeared.

21. A candidate shall be declared to have passed the B.Sc. (Honours) Degree Examination if he has obtained not less than—

**Marks qualifying for a pass** 40 per cent of the total marks in Part I (English) and 40 per cent of the total marks in Part II and 30 per cent of the marks in each division of Part II.

**Divisions of Examinations** of The divisions shall be as follows:—

(i) *Mathematics*.—(a) Pure Mathematics, (b) Applied Mathematics, (c) Optional subject.

(ii) *Physics* or (iii) *Chemistry*.—(a) Written examination in the main subject. (b) Practical examination and laboratory note-books in the main subject, (c) Subsidiary subject.

(iv) *Botany*, (v) *Zoology* or (vi) *Geology*.—(a) Written examination in the main subject. (b) Practical examination and laboratory note-books in the main subject. (c) A subsidiary subject. (d) Another subsidiary subject. All other candidates shall be deemed to have failed in the examination.

**Classification of successful Candidates**      Candidates obtaining Honours shall be ranked in the order of proficiency as determined by the total marks obtained by each and shall be arranged in three classes:—

The *first*, consisting of those who obtain not less than 60 per cent; the *second*, of those who obtain not less than 50 per cent; and the *third*, of those who obtain not less than 40 per cent of the total marks.

#### DEGREE OF MASTER OF SCIENCE.

22. (a) A holder of any one of the following Degrees of this University:—

- (i) B.Sc. (Honours),
- (ii) B.A. (Honours) in a Science subject.
- (iii) M.A. in a Science subject,

or of a science degree of some other University accepted by the Syndicate as equivalent thereto, will be eligible for the Degree of M.Sc. on payment of a fee of Rs. 100, provided he produces satisfactory evidence that he has worked for not less than one year, after passing the examination held for candidates for the B.Sc. (Honours) Degree or the equivalent examination, under the direction of a Professor or other person approved by the Syndicate in a Constituent or an Affiliated College or in a Research Institute approved by the Syndicate and has submitted between 1st November and 1st December a thesis of original work done which is approved by each of three independent Judges nominated by the Syndicate.

(b) A holder of any one of the following Degrees of this University:—

- (i) B.Sc.,

## (ii) B.A. in a Science subject,

will be eligible for the Degree of M.Sc. on payment of a fee of Rs. 100, provided he produces satisfactory evidence that he has worked for not less than two years, after passing the B.Sc. or B.A. Examination, under the direction of a Professor or other person approved by the Syndicate in a Constituent or Affiliated College or in a Research Institute approved by the Syndicate, and has submitted between 1st November and 1st December a thesis of original work done which is approved by each of three independent Judges nominated by the Syndicate.

TRANSITION FROM ARTS TO SCIENCE AND FROM  
SCIENCE TO ARTS.

23. (i) Candidates for degrees in Science who have already qualified for a degree in this University shall be permitted to appear for the examinations in Science under the conditions following:—

**Graduates may  
appear for  
Science Examinations**

(a) A candidate who has qualified for the Degree of Bachelor of Science and desires to qualify for the Degree of M.Sc. shall be permitted to appear at any time for the examination held for candidates for the B.Sc. (Honours) Degree after a two years' course in an affiliated College and shall be exempted from re-examination in English and in any subsidiary subject in which he has qualified for the Degree of Bachelor of Science; in such subsidiary subjects he shall be credited with the percentage of marks obtained in those subjects in the B.Sc. Degree Examination.

**(a) B.Sc.'s to  
qualify for M.Sc.**

(b) A candidate who has qualified for the B.A. Degree in Group (i), (ii-A), (ii-B) or (iii) shall be permitted to appear for the B.Sc. (Honours) Degree Examination after a two years' course in an affiliated college, provided he presents himself for

**(b) B. A.'s ap-  
pearing for B.Sc.  
(Honours)**

examination in the subjects in which he has already qualified himself for the B.A. Degree: he shall be exempted from re-examination in English and in the case of Branch ii or Branch iii from re-examination in Chemistry or Physics, respectively, taken as subsidiary subjects, and in the case of Branches iv, v and vi from re-examination in any subsidiary subject in which he may have qualified as his main subject in the B.A. Degree Examination. He shall be credited in each subsidiary subject in which he is exempted with the percentage of marks gained in that subject in the B.A. Degree Examination.

Such a candidate appearing in Branch iv, v or vi shall be permitted to appear in the same year both for his main subject and for the subsidiary subject or subjects in which he is not exempted from re-examination under this Regulation.

**Eligibility for B. Sc. (Honours) Degree** A candidate who, under this Regulation, passes the B.Sc. (Honours) Degree Examination within four years of passing the Intermediate Examination shall be eligible for the B.Sc. (Honours) Degree.

**Eligibility for M.Sc. Degree** A candidate who under this Regulation passes the examination after the expiry of four years from the date of passing the Intermediate Examination shall be eligible to qualify for the M.Sc. Degree.

**(c) B.A.'s appearing for B.Sc.** (c) A candidate who has qualified for the B.A. Degree in Group (i), (ii-A), (ii-B), or (iii) shall be permitted to appear for the B.Sc. Degree Examination in any three subjects after one year's course in an affiliated college, provided he presents himself for examination in the subjects in which he has already qualified himself for the B.A. Degree. He shall be exempt-

ed from re-examination in English and from re-examination in the main subject in which he qualified himself for the B.A. Degree; in the latter subject he shall be credited with the percentage of marks gained in the B.A. Degree Examination.

- (d) A candidate who has qualified for the B.A. Degree in a Group other than Group (i), (ii-A), (ii-B), or (iii), shall be permitted to appear for the B.Sc. Degree Examination after a two years' course in an affiliated college; he shall be exempted from re-examination in English.

(ii) Science  
graduates may  
qualify for B.A.  
(Honours)

- (ii) Candidates for Degrees in Arts, who have already qualified for a degree in this University in Science, shall be permitted to appear for the B.A. (Honours) Degree Examination within four years of passing the Intermediate Examination under the following condition:—

A candidate who has qualified for the Degree of Bachelor of Science with Mathematics as one of his subjects shall be permitted to appear for the B.A. (Honours) Degree Examination in Branch i—Mathematics after a two years' course in an affiliated college and shall be exempted from re-examination in English.

#### DEGREE OF DOCTOR OF SCIENCE (Regulations).

24. A Master of Arts in Science subjects or a Master of Science of the University of Madras, may offer himself as a candidate for the Degree of Doctor of Science (D.Sc.), provided three years have elapsed from the time when he passed the examination for the Degree of Bachelor of Science (Hons.), or Master of Arts in Science subjects or qualified for the degree of Master of Science.

25. The candidate shall state in his application the special subject within the purview of the Regulations for



the Degree of Master of Science, upon a knowledge of which he rests his qualification for the Doctorate, and shall, with the application, **transmit** three copies, printed or typewritten, of a thesis that he has composed treating scientifically some special portion of the subject so stated, embodying the result of research, or showing evidence of his own work, whether based on the discovery of new facts observed by himself or of new relations of facts observed by others, or tending generally to the advancement of Science. The candidate shall indicate generally in a preface to his thesis and specially in notes, the sources from which his information is taken, the extent to which he has availed himself of the work of others, and the portions of the thesis which he claims as original; he shall further state whether his research has been conducted independently under advice, or in co-operation with others, and in what respect his investigations appear to him to tend to the advancement of Science.

26. The candidate may also forward, with his application, three printed copies of any original contribution or contributions to the advancement of the Science professed by him, or any cognate branch of Science, which may have been published by him independently or conjointly, and upon which he relies in support of the candidature.

The application and thesis must be forwarded so as to be received by the Registrar between 1st November and 1st December of any year.

27. The thesis mentioned in Regulation 25 and the original contributions, if any, mentioned in Regulation 26, shall be referred by the Syndicate to a Board of three Examiners.

28. If the thesis is approved by the Board, the candidate shall not be required to submit to any further written examination; but he may be required by the Board at their discretion, to appear before them to be tested orally, or practically, or by both these methods, with reference to the thesis and the special subject selected by him. The Board shall report to the Syndicate the result of the examination

of the thesis, and of the oral and practical examinations, if any; and if the Syndicate, upon the report, consider the candidate worthy of the Degree of Doctor of Science, it shall cause his name to be published with the subject of his thesis and the titles of his published contributions (if any) to the advancement of Science.

29. Every candidate shall be at liberty to publish his thesis and the thesis of every successful candidate may be published by the University with the inscription 'Thesis approved for the Degree of Doctor of Science in the University of Madras.'

## CHAPTER XXXVI (Regulations).

### Degree of Bachelor of Science in Agriculture.

#### *A.—Courses of Study.*

1. Candidates for the Degree of Bachelor of Science in Agriculture (B.Sc. Ag.) shall be required

(1) to have passed the Intermediate Examination in Arts and Science of this University and to have qualified in Group i or Group ii of Part II thereof, or an examination of some other University accepted by the Syndicate as equivalent thereto;

**Conditions of admission**

(2) to have undergone subsequently a further course of study in Agriculture extending over three years at a College of Agriculture affiliated to this University, and to have passed the examination for the Degree hereinafter prescribed.

2. The course of study in Agriculture shall comprise both theoretical and practical instruction in the following subjects:—

**Course of Study**

**Part I—**(1) Agriculture, including Animal Hygiene.

(2) Agricultural Botany.

(3) Agricultural Chemistry.

(4) Agricultural Zoology.

(5) Agricultural Engineering.

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**Part II—(1) Agriculture.**

(2) Agricultural Botany, including Mycology.

(3) Agricultural Chemistry.

**Syllabus**      3. The syllabus of studies under each of the above subjects shall be prescribed from time to time by the Syndicate on the recommendation of the Board of Studies in Agriculture.

*B.—Examinations.*

**Examinations**      4. The examination for the Degree of Bachelor of Science in Agriculture shall be held in two parts; no candidate shall be eligible for the degree unless he has passed both Part I and Part II of the examination.

**Part I**      5. Part I of the examination shall be held at the end of the second year of the course of study and shall be in the following subjects:—

(1) Agriculture, including Animal Hygiene, (2) Agricultural Botany, (3) Agricultural Chemistry, (4) Agricultural Zoology, and (5) Agricultural Engineering.

**Part II**      6. Part II of the examination shall be held at the end of the third year of the course of study and shall cover the whole course in the following subjects:—

(1) Agriculture, (2) Agricultural Botany, including Mycology, and (3) Agricultural Chemistry.

No candidate shall be admitted to Part II of the examination unless he has passed Part I, except as provided in Regulation 8 of this Chapter.

7. The examination in each Part shall be both written and practical, as hereinafter prescribed; **Examination, both written and practical** in conjunction with each practical examination there may be an oral examination of each candidate. Each candidate shall produce to the Examiners for scrutiny his laboratory and field note-books.

8. A candidate in Part I of the examination who fails in not more than one subject and who obtains not less than 40 per cent. of the aggregate number of marks shall be exempted from re-examination in the remaining subjects of that Part and may appear again in any year for re-examination in the subject in which he has failed without the production of a further certificate. Such candidate may proceed to Part II of the examination on the production of the certificates required for that Part: provided that he shall not be eligible for the degree until he has passed the remaining subject of Part I in accordance with Regulation 9 (a) of this Chapter. **Exemption from re-examinations in certain subjects in Part I**

9. (a) A candidate shall be declared to have passed the examination in Part I if he obtains not less than 40 per cent of the total aggregate marks and not less than 33 per cent in each of the five separate subjects enumerated in Regulation 2 of this Chapter. Candidate obtaining not less than 66 per cent of the total aggregate marks in one and the same examination shall be declared to have passed in the first class; all other successful candidates shall be placed in the second class. **Marks for pass in Part I**

(b) A candidate shall be declared to have passed the examination in Part II if he obtains not less than 45 per cent of the total aggregate marks and not less than 33 per cent of the marks in each of the three subjects. Candidates obtaining not less than 66 per cent of the marks in 'Agriculture' and not less than 66 per cent of the total aggregate marks shall be declared to have passed in the first **Marks for pass in Part II**

class; all other successful candidates shall be placed in the second class.

(c) Successful candidates shall be ranked in the order of proficiency as determined by the total number of marks obtained by each in Part I and Part II respectively and shall be placed in the first or second class as the case may be in accordance with Regulations 9 (a) and 9 (b).

**Classification of Successful Candidates.**

## CHAPTER XXXVII (Regulations).

### Degree of Licentiate in Teaching.

1. No candidate shall be eligible for the Degree of Licentiate in Teaching unless he has taken a degree in this University or a Degree in some other University accepted by the Syndicate and has also passed the prescribed examination.

**Qualification for degree**

2. Candidates for the L.T. Degree Examination shall have taken, or have qualified for, a degree in this University or have taken a degree in some other University accepted by the Syndicate as equivalent thereto.

**Qualification of candidates for Examination**

3. The examination shall be a written examination conducted by means of printed papers.

**Conduct of Examination**

4. Candidates shall undergo a course, and be examined in:—

(i) A. B. C. The Theory and Practice of Education including the special study of the work of a great educator or of a modern educational system, to be prescribed from time to time by the Board of Studies [For Syllabus *vide* APPENDIX V].

**Courses of Study**

(ii) (D). Methods appropriate to the teaching of (1) English, and (2) one of the following groups of subjects:—  
(a) Child education, (b) Mathematics, (c) Physical Science,

(d) Natural Science, (e) History, (f) Geography, (g) one language other than English, and (h) Domestic Science. (For Syllabuses *vide* APPENDIX V.)

(iii) Candidates shall also undergo a course in practical training including instruction in school management and practice in teaching.

5. Candidates who obtain not less than 35 per cent of the marks in both of the first day's papers taken together, and not less than 35 per cent in each of the second day's papers and not less than 40 per cent in the second day's papers taken together shall be declared eligible to receive the Degree of Licentiate in Teaching. All other candidates shall be deemed to have failed. Of the successful candidates those who obtain not less than 60 per cent of the total marks shall be placed in the first class and those who obtain not less than 50 per cent of the total marks shall be placed in the second class. The remaining successful candidates shall be placed in the third class.

Successful candidates who obtain not less than 60 per cent of the marks in the paper relating to D-(1) or the paper relating to D-(2) shall be declared to have obtained distinction in that subject.

## CHAPTER XXXVIII (Regulations).

### Degrees of Bachelor of Laws, Master of Laws and Doctor of Laws.

#### DEGREE OF BACHELOR OF LAWS.

1. No candidate shall be eligible for the degree of Bachelor of Laws unless he has taken the degree of Bachelor of Arts or Bachelor of Science in this University or a degree in some other University accepted by the Syndicate as equivalent thereto, and has also passed the two Examinations in Law.

## FIRST EXAMINATION IN LAW.

2. Each candidate for the First Examination in Law must forward with his application satisfactory evidence of having taken or of having qualified for the degree of Bachelor of Arts or Bachelor of Science or of having taken some other accepted degree.

3. Candidates who were qualified to present themselves for the First Examination in Law in May, 1902, according to the bye-laws in force in May, 1902, shall be eligible for admission to any subsequent First Examination in Law.

4. Applications for exemption from the production of the prescribed certificates must be forwarded so as to reach the Registrar on or before the 15th January in the case of candidates desirous of appearing for the April Examination, and the 1st July in the case of candidates desirous of appearing for the October Examination.

5. Candidates for the First Examination in Law shall be examined in the following subjects:—

- (i) Jurisprudence.
- (ii) Roman Law.
- (iii) The Law of Contracts, including Negotiable Instruments and Specific Relief.
- (iv) The Law of Torts.
- (v) Indian Constitutional Law.

Candidates shall be declared to have passed the examination who obtain not less than one-third of the marks in Jurisprudence, Roman Law, and Indian Constitutional Law taken together, one-third of the marks in Contracts, and the Law of Torts taken together, and not less than forty per

cent of the total marks. All other candidates shall be deemed to have failed in the examination.

**Classification of successful candidates** 6. Successful candidates shall be ranked in the order of proficiency as determined by the total marks obtained by each, and shall be arranged in three classes.

The first, consisting of those who obtain not less than sixty per cent of the total marks.

The second, of those who obtain not less than fifty per cent of the total marks.

The third, of those who obtain not less than forty per cent of the total marks.

The examiners shall be at liberty to bracket candidates when the difference between them amounts only to a very small number of marks.

#### B.L. DEGREE EXAMINATION.

7. Each candidate must forward with his application **F.L. Certificate** a certificate of having passed the First Examination in Law.

**Candidates qualified to appear in 1903** 8. Candidates who were qualified to present themselves for the B.L. Degree Examination in January, 1903, according to the by-laws in force in January, 1903, shall be eligible for admission to any subsequent B.L. Degree Examination.

**Exemption** 9. Applications for exemption from the production of the prescribed certificates must be forwarded so as to reach the Registrar not later than the 15th January in the case of candidates desirous of appearing for the April Examination, and the 1st July in the case of candidates desirous of appearing for the October Examination.



**Subjects** 10. Candidates for the B.L. Degree Examination shall be examined in the following subjects:—

(i) The Law of Property, with special reference to the Transfer of Property Act, the Indian Trusts Act and the Indian Easements Act (2 papers).

Questions shall ordinarily be set only on such points of the English Law of Property as deal with the general principles of the Law of Property and are calculated to enable students to appreciate the Indian Law of Property.

(ii) Hindu and Muhammadan Law.

(iii) The Principles of Land Tenure in the Madras Presidency.

(iv) The Law of Evidence.

(v) Criminal Law (Indian Penal Code).

11. Candidates shall be declared to have passed the examination who obtain not less than one-third of the marks in the Law of Property and Madras Land Tenures taken together, one-third of the marks in Hindu and Muhammadan Law taken together, one-third of the marks in Criminal Law and the Law of Evidence taken together and not less than forty per cent of the total marks. All other candidates shall be deemed to have failed in the examination.

**Classification of successful candidates** Successful candidates shall be ranked in the order of proficiency as determined by the total marks obtained by each, and shall be arranged in three classes:—

The first, consisting of those who obtain not less than sixty per cent of the total marks.

The second, of those who obtain not less than fifty per cent of the total marks.

The third, of those who obtain not less than forty per cent of the total marks.

The examiners shall be at liberty to bracket candidates when the difference between them amounts only to a very small number of marks.

#### DEGREE OF MASTER OF LAWS.

12. No candidate shall be eligible for the degree of Master of Laws unless he has taken the **Eligibility for M.L. Degree** degree of Bachelor of Laws of this University or a degree in some other University accepted by the Syndicate as equivalent thereto and has also passed the M.L. Degree Examination.

No candidate shall be admitted to the examination for the degree of Master of Laws unless he has passed not less than two years previously the examination for the degree of Bachelor of Laws in this University or a degree examination in some other University accepted by the Syndicate as equivalent thereto. **Qualification of candidates for Examination**

Each candidate must forward with his application satisfactory evidence of having taken or having qualified for the degree of Bachelor of Laws or of having taken some other accepted degree. **Qualification of Candidates**

13. Candidates for the degree of Master of Laws shall be examined in one of the following branches :— **Branches of Study**

##### *Branch 1.*

(i) Jurisprudence.

Legislation.

(ii) Roman Law—General.

Do. do.

Selections from the translated portions of the

Digest.

(iii) International Law—Public.

Do.

Private.

(iv) Constitutional Law and History.

Legal History.

*Branch II.*

(i) Real Property—General. Including the law of mines, quarries, and minerals. Highways, main roads, and bridges. The foreshore and seashore.

(ii) Real Property—Transfer. Including the principles of conveyancing and the interpretation of deeds. Law of Vendors and Purchasers, Mortgage, and Landlord and Tenant.

(iii) The Law of Trusts, Public and Private, and Powers.

The Law of Wills, Succession and Bankruptcy.

(iv) History of the English and Indian Land Laws. The Law of Easements and Profits.

*Branch III.*

(i) Law of Contracts (in general) and the remedies by specific performance, injunction and damages.

Bailments, carriers, suretyship and guarantee.

(ii) Agency, Partnership and Companies.

Domestic relations. Parent and child, husband and wife, master and servant.

(iii) Law of Torts (in general) and remedies by damages and injunction.

Negligence, Nuisance, Libel and Slander.

(iv) Mercantile Law. Including negotiable securities, trade marks, and insurance.

Maritime Law. Including charter-parties and bills of lading, and the Law of Marine insurance.

*Branch IV.*

(i) Hindu Law, Family Law, Law of Inheritance and of Endowments.

(ii) Muhammadan Law, Family Law, Law of Inheritance and of Endowments.

(iii) Statute Law relating to constitutional matters. Law of Marriage and of Succession in India.

(iv) Customary and Statute Law relating to Land Tenure in India.

*The following revised Regulation should be substituted for the above and will take effect from the Examinations of 1931 et seq.*

#### BRANCH I. - Jurisprudence.

1. Jurisprudence General.
2. Comparative Jurisprudence, (with specific reference to Roman, Hindu and Muhammadan Systems).
3. History of the common Law of England.
4. History of Equity and Equity Jurisprudence.
5. Legislation (Theory, Method and Interpretation )
6. One of the following :—
  - (a) Roman Law.
  - (b) Continental Civil Law.
  - (c) Ancient Law and Custom including Customary Law in India, (including Burma).
7. Essay.

#### BRANCH II.—Constitutional Law.

1. Constitutional Law of England and its History.
2. Indian Constitutional Law and its History.
3. Constitutional Law of the British Dominions and other countries, e.g., U.S.A., Japan, Germany.

4. Public Authorities, Corporations and Officers.
5. Law of Elections.
6. British India and the Indian States (with special reference to Treaties).
7. Essay.

#### BRANCH III.—International Law.

- |     |   |   |
|-----|---|---|
| 1.  | } | Public International Law to be studied with documents—Two papers. |
| and |   |   |
| 2.  |   |   |

3. Private International Law—General.
4. Private International Law—Domicile.
5. Prize Law.
6. One of the following as a special subject:—
  - (a) Outlines of the History of Diplomacy and Diplomatic Practice.
  - (b) League of Nations (Constitution and powers especially International Court of Justice.)
  - (c) The Monroe Doctrine and Interstate Law in the United States and International Law in the Far East.
  - (d) British India and the Indian States, (including Treatise).
7. Essay.

#### BRANCH IV. — Torts and Crimes.

1. Theory of Crimes and the Punishments including Criminology.
2. Law of Crimes and Criminal Procedure in India.

3. History of Criminal Law and Procedure of England.
4. Comparative Criminal Jurisprudence including Procedure.
5. Law of Torts and its History.
6. Negligence and Nuisance and Libel and Slander.
7. Essay.

**BRANCH V.—Law of Obligations.**

**(Contracts and Torts).**

1. Law of Contracts and its History.
2. Law of Torts and its History.
3. Remedies of Specific Performance, Injunctions and Damages, and their History.
- 4, 5, 6. Any three of the following:—
  - (a) Negotiable Instruments.
  - (b) Sale of Goods and Bailments and Carriers.
  - (c) Agency and Partnership.
  - (d) Domestic relations, Husband and Wife, Parent and Child, Master and Servant.
  - (e) Negligence, Nuisance, Libel and Slander.
- 7.

**BRANCH VI.—Mercantile Law.**

1. Company Law.
2. Any one of the following:—
  - (a) Bankruptcy,
  - (b) Patents, Copyright and Trade Marks.
  - (c) Insurance—Life, Fire and Marine.

3. Banking including Negotiable Instruments.
4. Sale of Goods.
5. Agency and Partnership.
6. Maritime Law (Merchant Shipping, Bills of Lading, Charter-parties and Collisions).
7. Essay.

**BRANCH VII.—Personal Laws.**

1. Hindu Law—Adoption, Marriage and Guardianship.
2. Hindu Law—Joint Family and Succession.
3. Hindu Law Texts and their History and rules of Interpretation.
4. Law of Hindu and Muhammadan Endowments.
5. Muhammadan Law and its History.
6. Statute Law relating to Guardianship, Marriage and Succession in India.
7. Essay.

**BRANCH VIII. Transfer of Property.**

1. Law of Transfer of Property— In England and in India.
2. Vendors and Purchasers and Mortgages.
3. Wills, Succession and Bankruptcy.
4. Compulsory and Judicial Sales.
5. Law of Private Trusts.
6. Public Trusts and Charities.
7. Essay.

**BRANCH IX. Real and Personal Property.**

1. Real Property.
2. Personal Property.
3. Highways—including Foreshore and Seashore.
4. Easements and Waters.
5. Land Tenures in India—Customary.
6. Land Tenures in India—Statute-Law.
7. Essay.

14. Candidates who obtain not less than one-third of the marks assigned to each sub-division, and not less than forty per cent on the whole, shall be declared to have passed the examination. All other candidates shall be deemed to have failed in the examination.

Successful candidates shall be ranked in the order of proficiency as determined by the total marks obtained by each and shall be arranged in three classes:—

Classification of successful candidates

The first, consisting of those who obtain not less than sixty per cent of the total marks.

The second, of those who obtain not less than fifty per cent of the total marks.

The third, of those who obtain not less than forty per cent of the total marks.

The examiners shall be at liberty to bracket candidates when the difference between them amounts only to a very small number of marks.

**DEGREE OF DOCTOR OF LAWS.**

15. Any Master of Laws of the University of Madras may offer himself as a candidate for the degree of Doctor of Laws; provided one year has elapsed from the time when he passed the examination for the degree of Master.



16. Every candidate shall state in his application the special subject within the purview of the regulations for the degree of Master of Laws, upon a knowledge of which he rests his qualification for the Doctorate, and shall, with the application, transmit three copies, printed or type-written, of a thesis that he has composed upon some branch of law, or of the history or philosophy of law. The candidate shall indicate generally in a preface to his thesis and especially in notes, the sources from which his information is taken, the extent to which he has availed himself of the work of others and the portions of thesis which he claims as original; he shall further state whether his research has been conducted independently, under advice, or in co-operation with others, and in what respects his investigations appear to him to advance the study of law.

17. Every candidate may also forward with his application three printed copies of any original contribution or contributions to the advancement of the science or study of law whether published conjointly or independently, upon which he relies in support of his candidature.

18. No application shall be entertained unless two Members of the Faculty of Law or two Doctors of Laws shall have testified, to the satisfaction of the Syndicate that since graduating as Bachelor of Laws, the candidate has practised his profession with repute for five years and that, in habits and character, he is a fit and proper person for the degree of Doctor.

The application and thesis must be forwarded so as to be received by the Registrar between 1st November and 1st December of any year.

19. The thesis mentioned in Regulation 16 of this Chapter and the original contributions, if any, mentioned in Regulation 17 of this Chapter shall be referred by the Syndicate to a Board consisting of the President of the Faculty of Law and two other persons,

20. If the thesis is approved by the Board, he shall not be required to submit to any further written examination; but he may be required by the Board at their discretion, to appear before them to be tested orally with reference to the thesis, and the special subject selected by him. The Board shall report to the Syndicate the result of the examination of the thesis, and of the oral examination, if any; and if the Syndicate, upon the report, considers the candidate worthy of the degree of Doctor of Laws, they shall cause his name to be published, with the subject of his thesis, and the titles of his published contributions (if any) to the advancement of the science or study of law.

21. Every candidate shall be at liberty to publish his thesis, and the thesis of every successful candidate shall be published by the University with the inscription, 'Thesis approved for the degree of Doctor of Laws in the University of Madras.'

## CHAPTER XXXIX (Regulations).

### DEGREES OF MEDICINE, SURGERY AND SANITARY SCIENCE.

#### Degree of Bachelor of Medicine and Surgery.

I. Candidates for the degree of Bachelor of Medicine and Surgery shall be required.—

(i) to have completed the age of seventeen years on or before the date of admission to a College of Medicine for registration as medical students ;

(ii) to have passed the Intermediate Examination in Arts and Science of this University, taking any three of the following subjects, Mathematics, Natural Science, Physics and Chemistry, or an examination accepted by the Syndicate as equivalent thereto ;

(iii) to have subsequently studied for a period of six months in a college affiliated to or recognised by the University, the subjects of Inorganic Chemistry, Physics and Biology, and passed the Pre-Registration Examination of this University or an Examination recognised by the General Medical Council of Great Britain and Ireland and accepted by the Syndicate as equivalent thereto;

(iv) to have, subsequent to passing the Pre-Registration Examination, been engaged for not less than five years in professional study in a College of Medicine affiliated to or recognised by the University, provided that not less than two academic years or six terms of medical study, immediately preceding the Final M. B. & B. S. Examination, be spent in attendance at the University of Madras on courses of instruction in the subjects of the curriculum;

(v) The academic year shall consist of three terms spring, autumn and winter. The spring term will extend from 1st January to 31st March, the autumn term from 1st July to 30th September, and the winter term from 1st October to 31st December.

(vi) In the case of the examinations other than the Final, candidates who fail at the examination or having applied for admission do not appear for the examination, or having obtained the prescribed certificate do not apply for admission to the examination although qualified to do so, shall be required to produce a certificate of further study for at least one term for Pre-Registration and six months for other examinations before appearing for the next succeeding examination.

(vii) The examinations shall be held twice a year in the months of June and December commencing on the first day of June or December, or, if that be a holiday on the succeeding day.

*Pre-Registration Examination.*

**2.** A candidate for the examination shall undergo a course of study extending over a period of six months, and shall be examined in

- (a) Inorganic Chemistry (according to a syllabus)  
 (b) Physics (do)  
 and (c) Biology (do)

The examination in each subject shall be written, practical and oral.

**3.** No candidate shall be admitted to the examination unless he has produced satisfactory evidence of having complied with the provisions contained in clause (ii) of Regulation 1 of this Chapter, and has produced the prescribed certificates.

**4.** Candidates who have passed the Physical or Natural, Science group of the B.A., B.Sc., or B.A. (Honours) Degree Examination of the University or of any other Indian University (where practical courses and examinations are held), accepted by the Syndicate as equivalent thereto, shall not however, be required to produce the prescribed certificates for, or to pass in any of the subjects in which they have passed at the Degree Examination. Such candidates shall however, be required to pay the prescribed fee for the whole Examination.

**5.** A candidate for the examination shall be declared to have passed the examination if he obtains not less than one-half of the marks in the written, and not less than one-half of the marks in the practical and oral taken together in each of the subjects, Inorganic Chemistry, Physics and Biology. All other candidates shall be deemed to have failed in the examination.

**6.** Candidates for the examination who fail, but obtain passing marks in any subject shall be exempted from re-examination in that subject.

Eligibility for  
admission to the  
Pre-Registration  
Examination

7. A candidate who fails in the examination twice shall not be permitted to take the Pre-Registration Examination again.

Classification of  
successful candidates

8. Candidates who pass the whole examination on the first occasion of appearing therefor shall be ranked in the order of proficiency as determined by the total number of marks obtained by each and shall be arranged in two classes; the first consisting of those who have obtained not less than seventy-five per cent of the aggregate number of marks, the second consisting of all the others.

Candidates who pass in the first class and who obtain not less than seventy-five per cent of the marks in any subject shall be declared to have passed with distinction in that subject.

Candidates who pass the whole examination at the second appearance shall be ranked only in the second class.

All candidates who pass the examination subject by subject shall be ranked in the second class separately.

#### *First M. B. & B. S. Examination.*

9. The course for the First M. B. & B. S. Examination shall extend over a period of one academic year for Part I and two academic years for Part II, after passing the Pre-Registration Examination.

A candidate for the Examination shall be examined in  
Part I—(a) Organic Chemistry (according to a syllabus).

Part II—(b) Anatomy, including Elements of Human Embryology.

(c) Physiology including Bio-Chemistry (according to a syllabus)

and (d) Pharmacology (according to a syllabus)

The examination in each subject shall be written, practical and oral.

10. No candidate shall be admitted to Part I of the examination unless he has passed the Pre-Registration Examination of this University, or an examination accepted by the Syndicate as equivalent thereto and has produced the prescribed certificates.

11. No candidate shall be admitted to Part II of the examination unless he has passed Part I of the examination or an examination accepted by the Syndicate as equivalent thereto and has produced the prescribed certificates.

12. A candidate for the examination shall be declared to have passed in Part I of the examination if he obtains in Organic Chemistry not less than one-half of the marks in the written, and not less than one-half of the marks in the practical and oral taken together, and to have passed Part II of the examination if he obtains not less than one-half of the marks in the written part of each of the subjects, Anatomy (including Elements of Human Embryology), Physiology, (including Bio-Chemistry) and Pharmacology respectively, and not less than one-half of the marks in the practical and oral taken together in each subject. All other candidates shall be deemed to have failed in the examination.

13. Candidates for the First M.B. & B.S. Examination who fail in the examination, but obtain passing marks in any subject shall be exempted from re-examination in that subject.

14. Candidates who pass Part I or II of the examination on the first occasion of appearing therefor shall be ranked in the order of proficiency as determined by the total number of marks obtained by each in both Parts and shall be arranged in two classes; the first consisting of those who have obtained not less than seventy-five per cent of the aggregate number of marks; the second consisting of all the others.

Candidates who pass in the first class and who obtain not less than seventy-five per cent of the marks in

any subject shall be declared to have passed with distinction in that subject.

Candidates who pass the whole examination at a subsequent appearance shall be ranked only in the second class.

All candidates who pass the examination subject by subject shall be ranked in the second class separately.

*Second M. B. & B. S. Examination.*

15. The course for the Second M.B. & B.S. Examination shall extend over a period of two academic years, subjects being taken concurrently—General Pathology with Bacteriology and Hygiene for two years, and Ophthalmology for one year.
- Duration of Course of study and subjects

A candidate for the examination shall not commence the course until he has completely passed the First M.B. & B.S. Examination:

He shall be examined in

- (a) General Pathology with Bacteriology.
- (b) Hygiene.
- (c) Ophthalmology.

The course shall include (a) instruction extending over a period of two years (b) attendance at an Ophthalmic Hospital or Ophthalmic wards of a General Hospital on three days in the week for a period of three months.

The examination in each subject shall be written, practical and oral in (a) and (b) and only written and oral in (c).

16. No candidate shall be admitted to the Second M.B. & B.S. Examination unless he has passed the First M.B. & B.S. Examination of this University or an Examination accepted by the Syndicate as equivalent thereto, and has produced the prescribed certificates,
- Qualification for admission

17. A candidate for the Second M. B. & B. S. Examination shall be declared to have passed the examination if he obtains not less than one-half of the marks in the written part of each of the subjects, General Pathology with Bacteriology, Hygiene and Ophthalmology, and not less than one-half of the marks in the practical and oral taken together in General Pathology with Bacteriology and Hygiene and not less than one-half of the marks in Oral Ophthalmology. All the other candidates shall be deemed to have failed in the examination.

Exemption from re-examination in the subject already passed. 18. Candidates for the examination who fail but obtain passing marks in a subject shall be exempted from re-examination in that subject.

19. Candidates who pass the whole examination on the first occasion of appearing therefor shall be ranked in the order of proficiency as determined by the total number of marks obtained by each and shall be arranged in two classes, the first consisting of those who have obtained not less than seventy-five per cent of the aggregate number of marks, the second consisting of all others.

Candidates who pass in the first class and who obtain not less than seventy-five per cent of the marks in any subject shall be declared to have passed with distinction in that subject.

Candidates who pass the whole examination at a subsequent appearance shall be ranked only in the second class.

All candidates who pass subject by subject shall be ranked in the second class separately.

*Final M. B. & B. S. Examination.*

Candidates permitted to take the examination at one time or in parts. 20. Candidates may present themselves for the whole examination at one time or may take the examination in two parts.

Part I. Forensic Medicine.

Part II. Medicine, Surgery, Obstetrics & Gynaecology.



21. The course shall extend over a period of one academic year for Forensic Medicine and three academic years for Medicine, Surgery, and Obstetrics and Gynæcology, taken concurrently and subsequent to passing the First M.B. and B. S. Examination.

*Medicine.*

22. The course in medicine shall include :

- (a) An appointment for six months as Clinical Clerk in the medical wards of a recognised hospital of which at least two months shall be in the final year ; and
- (b) An appointment for three months as Clinical Clerk in the medical out-patients department of a recognised hospital.

23. Every candidate for the M.B. & B.S. degree shall also attend recognised courses of instruction in the following subjects :—

- (i) A course of systematic instruction in the principles and practice of medicine.
- (ii) Instruction in applied Anatomy and Physiology and in Clinical Pathology.
- (iii) Infectious Diseases—with attendance as Clinical Clerk at a recognised hospital on two days in the week for a period of three months ;
- (iv) Mental Diseases—with attendance as Clinical Clerk at a recognised Mental Hospital on one day in the week for a period of three months ;
- (v) Tuberculosis—with attendance as Clinical Clerk at a Tuberculosis Hospital on one day in the week for a period of three months ;
- (vi) Medical Therapeutics-
- (vii) Dermatology--with attendance at the special departments on two days in the week for a period of three months ;

(viii) Instruction in Vaccination by a qualified Health Officer

(ix) Diseases of Children.

24. The examination in Medicine may include question on the above-mentioned subjects, but separate examinations in those subjects will not be held.

### *Surgery.*

25. The course in Surgery shall include—

(a) An appointment for six months as Surgical Dresser in the surgical wards of a recognised hospital of which at least two months shall be in the final year ; and

(b) An appointment for three months as Surgical Dresser in the out-patient department of a recognised hospital.

26. Every candidate for the M.B. & B.S. Degree shall also attend recognised courses of instruction in the following subjects :—

(i) A course of systematic instruction in the principles and practice of surgery.

(ii) Instruction in applied Anatomy and Physiology and Clinical Pathology.

(iii) Oto-Rhino-Laryngology—with attendance as a clinical clerk at a recognised clinic on three days in the week for a period of three months ;

(iv) Orthopedics—two days in the week for three months ;

(v) Administration of Anæsthetics ;

(vi) Operative Surgery.

(vii) Radiology with attendance at an X-ray institute on three days in the week for one month ;

(viii) Venereal Diseases—with attendance at a Venereal clinic for two days in the week for a period of three months.

27. The Examination in Surgery may include questions on the above-mentioned subjects, but separate examinations in these subjects will not be held.

*Obstetrics & Gynaecology.*

Obstetrics and 28. The course in Obstetrics & Gynaecology. Gynæcology shall include :—

- (a) An appointment as Clinical Clerk at an ante-natal clinic and maternity wards of a lying-in-hospital for a period of three months, and the personal conduct of twenty cases of labour of which five at least shall be under supervision ; and
- (b) An appointment as Clinical Clerk in the Gynæcological wards and out-patient department of a recognised hospital for a period of three months.

Attendance at recognised courses of instruction. 29. Every candidate for the M.B. & B. S. Degree shall also attend recognised courses of instruction in the following subjects :—

- (a) Instruction during a period of at least two terms comprising courses of systematic instruction in the principles and practice of Obstetrics & Gynæcology.
- (b) Lectures or demonstrations in clinical Obstetrics & Gynæcology, and attendance on in-patient and out-patient Gynæcological practice.

30. Every candidate for the M. B. & B. S. Degree before commencing the study of practical midwifery shall have held the appointments of Clinical Medical Clerk and Surgical Dresser and shall have attended a course of lectures on Medicine, Surgery and Obstetrics & Gynæcology.

31. A certificate that the candidate has conducted the above mentioned twenty cases of labour should be given by a member of the staff of the lying-in-hospital or of a maternity charity hospital as may be recognised by the University of Madras from time to time after consulting the Board of Studies in Medicine.

32. The Examination in each subject shall be written and oral in the case of Forensic Medicine, and written, clinical, practical and oral in the case of Medicine, Surgery, and Obstetrics & Gynæcology.

Eligibility for admission. 33. No candidate shall be admitted to the examination unless

- (1) he has passed the 1st M. B. & B. S. examination or an examination accepted by the Syndicate as equivalent thereto not less than three academic years previously ;
- (2) he has passed the 2nd M.B. & B. S examination or an examination accepted by the Syndicate as equivalent thereto not less than six months previously ;
- (3) he has been engaged in medical studies at the University of Madras for not less than two academic years immediately preceding the examination ; and
- (4) he has produced the prescribed certificates.

34. A candidate for the examination shall be declared to have passed the examination if he obtains not less than one-half of the marks in the written part of each of the subjects, Forensic Medicine, Medicine, Surgery and Obstetrics & Gynæcology, not less than one-half of the marks in Oral Forensic Medicine, and not less than one-half of the marks in Clinical and Oral Medicine taken together, not less than one-half of the marks in (1) Clinical Surgery, (2) Operative and Oral Surgery taken together, and not less than one half of the marks in Clinical, Practical and Oral Obstetrics & Gynæcology taken together. All other candidates shall be deemed to have failed in the examination.

Exemption for failed candidates. 35. Candidates who fail in the examination but obtain passing marks in any subject, shall be exempted from re-examination in that subject.

36. Candidates who pass Parts I and II of the examination on the first occasion of appearing therefor shall be ranked in the order of proficiency as determined by the total number of marks obtained by each, and shall be arranged in two classes; the first consisting of those who have obtained not less than seventy-five per cent of the aggregate number of marks, the second consisting of all the others.

Candidates who pass in the first class and who obtain not less than seventy-five per cent. of the marks in any subject shall be deemed to have passed with distinction in that subject.

Candidates who pass Part I or II of the Examination at a subsequent appearance shall be ranked only in the second class.

All candidates who pass the examination subject by subject shall be ranked in the second class separately.

The above revised regulations shall take effect from 1st December 1928.

### *Transitory Regulations.*

Candidates who were at their second Year of Medical studies on the 1st July 1928, will appear for the First M. B. & B. S. Examination under the new regulations in June 1929, provided they satisfy the regulations, i. e., four terms under old regulations or six under new regulations and shall on passing proceed with their further medical studies, under the new regulations.

Candidates who have passed the Second M.B. & B.S. Examination under the old regulations, and who enter on their Third Year of medical studies on the 1st July 1928, shall proceed with their further studies under the new regulations, and appear for the Second M.B. & B.S. Examination under the new regulations in June 1930, provided that they shall also be required before qualifying for the Degree to pass an examination in Pharmacology at any time after production of prescribed certificates.

Candidates who have passed the Second M.B. & B.S. Examination under the old regulations, and who enter on their Fourth Year of medical studies on the 1st July 1928, shall proceed with their further studies under the new regulations as far as they are applicable, and shall appear for the Second M.B. & B.S. Examination under the new regulations in June 1929, provided that they shall also be required before qualifying for the Degree to pass an examination in Pharmacology at any time on production of prescribed certificates.

Candidates who have passed the Third M.B. & B.S. Examination under the old regulations, and who enter on their Fifth Year course on the 1st July 1928, will continue to study under the old regulations, and appear for the Final M.B. & B.S. Degree Examination in April 1929. Candidates who fail at this examination will, however, appear for the examination again in December 1929.

All Medical Examinations except the Final M.B. & B.S. of April 1929, will be held in the months of June and December from the 1st January 1929.

The old regulations so far as they are applicable in regard to the L.M. & S. Degree, shall continue to be applicable to those candidates who are entitled under the old regulations for these privileges.

The term "old regulations" means either the regulations which came into force on the 1st July 1926 or the regulations in force prior thereto.

The Third Year Examination (in Hygiene and Pathology) will not be held in April 1928 for the *regular* third year students of the Madras Medical College, who can, however, if they choose, appear for the examination in Materia Medica only either then or at any time before applying for the Final M.B. & B.S. Degree Examination.

Candidates for the First and Second year Medical Examinations of April 1928, *et seq*, who fail in the examination, but obtain 50 per cent. of the marks in any subject shall be exempted from re-examination in that subject.

*Candidates who were in their second year of Medical Studies on the 1st July 1928, will appear for the first M.B. & B.S. Examination under the New Regulations in June 1929, but shall not be required to pass in Pharmacology. They shall, on passing the 1st M.B. Examination, proceed with their further Medical Studies under the New Regulations. They shall also be required before qualifying for the Degree to pass an examination in Pharmacology at any time after production of prescribed certificates.*

DEGREES OF DOCTOR OF MEDICINE AND  
MASTER OF SURGERY

(i) *Doctor of Medicine.*

37. (a) No candidate shall be admitted to the examination for the Doctor of Medicine unless he produces a certificate showing that

(1) he, having passed the M.B. & B.S. Degree Examination of this University, has been engaged for three years continuously in the practice of the Medical profession,

or

(2) he, after qualifying for his M.B. & B.S. Degree, has passed two years in hospital practice,

or

(3) he, having passed his M.B. & B.S. Degree Examination in the first class, has passed one year in hospital practice,

(b) Each candidate must also produce a testimonial, signed by at least two Doctors of Medicine, or two Masters of Surgery, or two members of the Senate of the University, certifying that he is in habits and character a fit and proper person to receive the degree of Doctor of Medicine.

**Branches of Examination** 38. Candidates shall be examined in one of the following branches:—

**Branch I—Medicine.**

(a) Medicine—one paper.

(b) Medicine, including Mental Diseases and Pathology—two papers,

- (c) A Clinical and Oral Examination, including an examination in Pathological specimens.

Branch II—Midwifery, including Diseases of Women and Children.

- (a) Medicine—one paper.  
 (b) Midwifery and Diseases of Women and Children, including the Pathology of these subjects—two papers.  
 (c) A Clinical and Oral Examination in Midwifery and Diseases of Women and Children including an examination in Pathological specimens.

Branch III—Pathology.

- (a) Medicine—one paper.  
 (b) Pathology—two papers.  
 (c) A Practical and Oral Examination in Pathology.

Branch IV—Tropical Medicine.

- (a) Medicine—one paper.  
 (b) Tropical Medicine, including the Pathology of Tropical Diseases—two papers.  
 (c) A Clinical and Oral Examination including the examination of Pathological specimens.

39. A candidate who has already passed the examination in one branch may, before he takes the degree, appear on a subsequent occasion in another branch, but no candidate may appear for the examination in two branches in the same year.

Candidates may  
qualify in two  
Branches

40. Candidates shall be approved by the Examiners and shall be declared to have passed if they have shown a competent knowledge in all the subjects of the examination. All other candidates shall be deemed to have failed in the examination.

Approved candidates



(ii) *Master of Surgery.*

41. (a) No candidate shall be admitted to the examination for the Master of Surgery unless he produces a certificate showing that,

- (1) he, having passed the M.B. & B.S. Degree Examination of this University, has been engaged for three years continuously in the practice of the Medical profession;

or

- (2) he, after qualifying for his M.B. & B.S. Degree, has passed two years in hospital practice;

or

- (3) he, having passed his M.B. & B.S. Degree Examination in the first class, has passed one year in hospital practice.

(b) Each candidate must also produce a testimonial, signed by at least two Doctors of Medicine, or two Masters of Surgery, or two members of the Senate of the University, certifying that he is in habits and character a fit and proper person to receive the degree of Master of Surgery.

Subjects for examination

42. Candidates shall be examined in—

- (1) Surgery—two papers.  
 (2) Surgical Anatomy and Pathology—one paper.  
 (3) One of the following special subjects—one paper:—

- (i) Ophthalmology.  
 (ii) Venereal and Genito-Urinary Surgery.  
 (iii) Gynæcological Surgery.  
 (iv) Aural and Laryngeal Surgery.  
 (v) Dental Surgery.

(4) Operative Surgery and the use of instruments.

(5) A Clinical and Oral Examination including the examination of Pathological specimens.

43. Candidates shall be approved by the Examiners and shall be declared to have passed if they have shown a competent knowledge in all the subjects of the examination. Approved candidates  
All other candidates shall be deemed to have failed in the examination.

**Diploma in Midwifery (D. G. O.)**

44. Candidates for the Diploma in Gynæcology and Obstetrics (D.G.O.) shall be required to have passed the M.B.B.S. or L.M.S. Examination of any of the Indian Universities or an Examination accepted by the Syndicate as equivalent thereto. Condition of Admission

45. The course of study for the Diploma shall extend over a period of one year subsequent to obtaining the Medical qualifications referred to above. Course of study

46. Every candidate shall be required:—  
(a) to have served as a House Surgeon in a recognised lying-in-Hospital for a period of six months;  
(b) to have personally conducted at least six Obstetric Operations under the supervision of the Medical Staff of a recognised institution during this period;  
and (c) to have subsequently given regular attendance for a period of six months at the Government Hospital for Women and Children, Madras, and to have attended such lectures and clinical demonstrations as may be prescribed.

There shall be given at least 20 lectures and 20 Clinical demonstrations on Midwifery and Gynæcology during this period.

Instruction is given during the course in:—

Practice of Midwifery,  
Practice of Gynæcology,  
Anatomy of the Female Pelvis,  
Elementary Embryology.  
Pathology of the Female organs, and  
Anti-Natal Pathology.

The examination for the Diploma is in the same subjects.

Subjects for Examination 47. At the end of the course candidates shall be examined in the following subjects:—

1. Midwifery—One paper.
2. Gynæcology and Diseases of a New Born Child—One paper.
3. A Clinical and Oral Examination in Midwifery and Gynæcology.

The examination will be very largely practical and is intended to test the student's knowledge of the practical side of Obstetrics and Gynæcology.

Marks qualifying for a pass 48. Candidates obtaining not less than one half of the marks in each of the papers and one half in the clinical and *viva voce* shall be declared to have passed in the Examination. All other candidates shall be deemed to have failed.

The following institutions shall be recognised for the House Surgeoncies:—

1. Government Hospital for Women and Children, Madras.
2. Rajah Sir Ramaswami Mudaliar's Lying-in-Hospital, Royapuram.
3. Government Victoria Caste and Gosha Hospital, Triplicane, Madras.

The examination shall be held twice a year in the months of April and October commencing from the 2nd Monday in each month.

Fees The fee payable for the examination shall be Rs. 50. A candidate who fails in the examination will be admitted at the succeeding examination provided he puts in an additional course of three months.

**DEGREE OF BACHELOR OF SANITARY SCIENCE.**

49. Candidates for this degree must be graduates in Medicine and Surgery of the University of Madras or hold corresponding degrees of other Universities or Licensing Bodies recognised for the purpose by the University. The degree must be registered with the Madras Medical Council before a candidate is admitted to the examination.

50. The course of study shall extend over a period of not less than twelve calendar months, and shall include instruction in the subjects as hereunder:—

*A,—Part I.*

- (i) Bacteriology (including 180 hours of practical work) extending over a period of ... .. 220 hours
- (ii) Entomology and Parasitology (including 70 hours of practical work in the laboratory and in the field, and Malaria surveys) extending over a period of ... .. 90 hours
- (iii) Chemistry and Physics in relation to Public Health (including 180 hours of practical work) extending over a period of ... .. 180 hours
- (iv) Climatology and Meteorology extending over a period of ... 10 hours

*B,—Part II.*

- (i) The Principles and Practice of Public Health (including 10 hours' instruction in Maternity and Child Welfare work and organisation) extending over a period of ... 50 hours
- (ii) Epidemiology and Vital Statistics extending over a period of ... 20 hours

- 
- (iii) Sanitary Law and Administration extending over a period of .. 20 hours
  - (iv) Sanitary Construction and Planning (including 10 hours' instruction in Town Planning and Civic Surveys) extending over a period of ... 30 hours
  - (v) The Theory and Practice of Vaccination (including practical and outdoor work, detection and verification) extending over a period of ... 80 hours
  - (vi) Instruction in Infectious Diseases and attendance upon the clinical practice of an Infectious Diseases Hospital extending over a period of three months, and comprising 80 attendances of two hours each on three days a week, involving a total period of ... .. 60 hours

*Note.*—Provision for such instruction is made in the Infectious Diseases Hospitals in Madras.

- (vii) Instruction in Public Health Administration (including the practical routine and special work of a Medical Officer of Health) extending over a period of six months, and comprising 60 attendances of three hours each under a Medical Officer of Health, involving a total period of ... .. 180 hours

*Note.*—This course shall comprise instruction in Maternity and Child Welfare work, the Medical Inspection of School Children, Industrial Hygiene, Inspection and control of foods and drugs.

- (viii) Instruction in Tuberculosis, clinical and administrative, extending over a period of ... .. 30 hours
- (ix) Instruction in Venereal Diseases, clinical and administrative, extending over a period of ... .. 10 hours

*Note.*—Provision is made in the Medical College, Madras, in the City of Madras, and in the Public Health Department for instruction in the subjects set out above

51. The course of study shall commence in July, and shall extend over four terms as follows:—  
**Academic Terms** The Autumn term from July to the end of September; the Winter term from October to December; the Spring term from January to March; the Summer or Vacation term from April to June. The courses of study shall be taken in the Medical College, Madras, or in the appropriate institutions in Madras, recognised for the purpose by the University.

52. The examination for the degree shall be conducted in two Parts as detailed below:—The examination in Part I shall be held twice a year, beginning on the second Monday in January and the Second Monday in April respectively. The examination in Part II shall be held once a year, beginning on the third Monday in July.

53. To obtain a pass in each Part the candidates must pass in all the subjects specified in that Part at the same sitting.

54. Admission to the examination will be restricted to candidates who have complied with the following conditions:—

*For Part I.*

The obtaining of a registrable qualification in Medicine, prior to completing of the course of instruction detailed above for Part I,

*For Part II.*

- (i) The obtaining of a registrable qualification in Medicine, prior to completing of the course of instruction detailed above for Part II.
- (ii) Previous passing of the examination in Part I in all the subjects.
- (iii) A lapse of two years after obtaining a registrable qualification in Medicine.

55. Candidates shall not be deemed to have attended a course of instruction for the purposes of this degree who do not present certificates showing not only that they have regularly attended the course, but also that they have duly performed the work thereof to the satisfaction of the Professor or Lecturer in the subject concerned.

56. Candidates shall be examined in the following subjects in Part I of the examination:—

(i) Chemistry and Physics in relation to Public Health, Climatology and Meteorology.

(ii) Bacteriology.

(iii) Medical Entomology and Parasitology.

The examination in each subject shall include a written paper, practical examination and a *viva voce*.

57. Candidates who obtain not less than one half of the aggregate marks in each subject in Part I of the examination shall be declared to have passed.

58. Candidates shall be examined in the following subjects in Part II of the examination:—

(i) Hygiene and Public Health including Sanitary Engineering.

(ii) Epidemiology and Infectious Diseases.

(iii) Sanitary Law and Vital Statistics.

(iv) Public Health Administration.

The examination in subjects (i) and (iii) shall include a written paper and a *viva voce*; that in (ii) shall include a written paper, a practical examination and a *viva voce*, and that in (iv) shall consist of a practical examination only.

59. Candidates who obtain not less than one half of the aggregate marks in each subject in Part II of the examination shall be declared to have passed.

60. Candidates who pass both Parts of the examination at the first sitting and who obtain not less than two-thirds of the aggregate marks of both the Parts together shall be declared to have passed in the First Class; and candidates obtaining not less than seventy-five per cent. of the marks in any subject shall be declared to have passed with distinction in that subject. Candidates obtaining less than two-thirds of the aggregate marks and not less than 50 per cent. of the total marks shall be declared to have passed the examination in the Second Class. All other candidates shall be deemed to have failed in the examination.

#### TIME-TABLE OF THE COURSES FOR THE B.S.Sc. DEGREE, MEDICAL COLLEGE.

##### *I.—Autumn term (July to September.)*

8—10	...	Medical Entomology and Parasitology			
		—Daily	...	...	... 90 hours
12—1	...	Bacteriology Lectures—Daily except.			
		Friday	...	...	... 40 hours
		Climatology	and	Meteorology—	
		Friday	...	...	... 10 hours
1—5	...	Bacteriology Laboratory work—			
		Daily	...	...	... 180 hours
50—b					



*II.—Winter term (October to December)*

7—9	... Vaccination—Daily in October	... 30 hours
	Tuberculosis—Daily for three weeks in November	... 30 hours
	Venereal Diseases—Daily for one week in November	... 10 hours
	Maternity and Child Welfare and Propaganda—Daily for two weeks in December	... 10 hours
	Town planning—Daily for two weeks in December	... 10 hours
11—12	... Principles of Public Health—Daily	... 40 hours
12—4	... Public Health Chemistry Laboratory work—Daily	... 180 hours

*III.—Spring term (January to March)*

7—10	... Duties of the Medical Officer of Health and out-door demonstra- tions—Monday, Wednesday, Friday	90 hours
	Infectious Diseases Hospital—Tues- day, Thursday, Saturday	... 60 hours
3—4	... Epidemiology and Vital Statistics— Daily in January from the second Monday	... 20 hours
	Sanitary Law and Administration— Daily in February from the second Monday	... 20 hours
4—5	... Sanitary Engineering—Daily in Janu- ary from the second Monday	... 20 hours

*IV.—Summer or Vacation term (April to June)*

	Public Health Administration and Routine with the Medical Officer of Health of Madras	... 90 hours
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## CHAPTER XL (Regulations).

## Degree of Bachelor of Engineering.

1. Candidates for the degree of Bachelor of Engineering shall be required to have passed the Preliminary qualifications and Duration of Course Intermediate Examination in Arts and Science in this University or an examination in some other University accepted by the Syndicate as equivalent thereto and subsequently to have attended a constituent or an affiliated College of Engineering for a period of not less than four years.

They shall be further required to have passed the Bachelor of Engineering Degree Examination and to have produced evidence which shall satisfy the Syndicate that they have spent not less than one year in practical work of which at least six months shall be passed by candidates in the Civil branch on Engineering Works and by candidates in the Mechanical branch in an Engineering Workshop.

*First Examination in Engineering.*

2. Candidates for the First Examination in Engineering shall be required to have attended an affiliated College of Engineering for not less than two years and shall be examined in the following subjects:—

- (1) Pure and Applied Mathematics.
- (2) Science—Chemistry and Physics.
- (3) Elementary Applied Mechanics.
- (4) Drawing, Geometrical Drawing, Machine Drawing and Building Drawing.
- (5) Elementary Practical Surveying.

(For Syllabus *vide* appendix X.)

3. Candidates obtaining not less than one-half of the aggregate number of marks shall be declared to have passed the examination. All other candidates shall be deemed to have failed in the examination. Successful candidates shall be ranked in the order of proficiency as determined by the total marks obtained by each.

Marks qualifying for a pass.

Classification of Successful Candidates.

***Bachelor of Engineering Degree Examination.***

**4. Candidates for the Bachelor of Engineering Degree Examination** shall be examined in one or other branch—Civil or Mechanical. They shall be required to have passed the First Examination in Engineering and to have attended a constituent or an affiliated College of Engineering for a period of not less than four years.

**5. The questions set for this examination shall not be more in respect of number or difficulty than can be answered within the time allowed by a candidate of average ability who has completed the course of study prescribed for the examination, but who has acquired no practical experience in engineering work.**

**6. Candidates in the Civil Branch** shall be examined in the following subjects:—

- (1) Pure and Applied Mathematics.
- (2) Applied Mechanics.
- (3) Construction.
- (4) Hydraulic Engineering.
- (5) Surveying.
- (6) Building Drawing and Estimating.

(For Syllabus—*vide* appendix X.)

**7. Candidates in the Mechanical Branch** shall be examined in the following subjects:—

- (1) Mathematics.
- (2) Applied Mechanics.
- (3) Mechanical Engineering.
- (4) Electrical Engineering.
- (5) Machine Drawing.

(For Syllabus—*vide* appendix X.)

8. Candidates obtaining not less than one-half of the aggregate number of marks shall be declared to have passed the examination. All other candidates shall be deemed to have failed in the examination. Successful candidates shall be ranked in the order of proficiency as determined by the total marks obtained by each and shall be arranged in two classes; the first consisting of those who have obtained not less than two-thirds of the aggregate number of marks; the second consisting of all others.

**Marks qualifying for pass.**

**Classification of Successful Candidates.**

## **CHAPTER XLI (Regulations)**

### **Titles, Certificates of Proficiency, and Degree in Oriental Learning**

1. There shall be an examination in Oriental Learning with a *compulsory division* for Titles and an *optional division* qualifying for certificates of proficiency in the modern methods of study.

**Examination**

(i) *Compulsory Division for Titles.*

2. The titles shall be as follows:—

*Siromani added to Mimamsa, Vedanta, Nyaya, Vya-*  
**Names of Titles** *karana, Sahitya, Jyotisa, or Ayurveda*  
according to the special branch of study  
elected by the candidate who has offered for his examination Sanskrit alone;

*Vidvan* in the case of a candidate who has offered for his examination either (a) Sanskrit and any one of the Dravidian languages (Tamil, Telugu, Kanarese, and Malayalam), or Sanskrit and either Marathi or Oriya, or (b) Tamil, Telugu; Kanarese, Malayalam, Oriya or Marathi as the main language with Sanskrit as a subsidiary language, or (c) any two of the Dravidian languages—Tamil, Telugu, Kanarese and Malayalam, or (d) Tamil alone.

*Afzal-ul-Ulama* in the case of a candidate who has offered for his examination Arabic alone;

*Munshi-i-Fazil* in the case of a candidate who has offered for his examination Persian as the principal language, and Urdu as the subsidiary language, and also possesses an elementary knowledge of Arabic Grammar.

3. Candidates for the *Siromani* title shall offer for their examination Sanskrit alone; and those for the *Vidvan* title either (a) Sanskrit and any one of the Dravidian languages (Tamil, Telugu, Kanarese, and Malayalam), or (b) Sanskrit and either Marathi or Oriya, or (c) Tamil, Telugu, Kanarese, Malayalam, Oriya, or Marathi as the main language with Sanskrit as a subsidiary language, or (d) any two of the Dravidian languages—Tamil, Telugu, Kanarese and Malayalam, or (e) Tamil alone.

Candidates for the *Afzal-ul-Ulama* title shall offer for their examination Arabic alone; and those for the *Munshi-i-Fazil* title Persian as the principal language and Urdu as the subsidiary language.

4. The course of studies for the examination for Titles shall extend over four years and shall be taken in an institution or institutions approved by the Syndicate.

5. The examination for Titles shall be divided into two parts, viz.—preliminary and final—

**Examination—** Preliminary and Final the preliminary examination in a specified portion of the course at the end of the second year and the final in the remaining portion of the course at the end of the fourth year. No candidate shall be admitted to the final examination until he has passed the preliminary examination.

5-A. Candidates who have qualified under the regulations of this Chapter for Titles in Oriental Learning may continue their studies under the same regulations in order to qualify further (i) for the same title in an additional Branch or in additional Branches, or in an additional Lang-

uage, or in additional Languages, or (ii) for other Titles, under the conditions following:—

*General.*

i. No candidate who has qualified for a Title will be admitted to any further examination for a Title, except after the expiry of two years from the date of passing the last preceding qualifying examination; provided that candidates who have qualified for (1) the Siromani Title in any one of the three South Indian Schools of Vedanta included in Branch II or (2) one of the titles in Arabic or Persian shall be admitted to a further examination (1) in any other South Indian School of Vedanta, or (2) in the other title in Arabic or Persian after the expiry of one year from the date of passing the last preceding qualifying examination.

ii. Applications for exemption from the production of the prescribed certificates shall be forwarded so as to reach the Registrar before the 1st October preceding the examination.

iii. No candidate who has already proceeded to a Title and has been awarded his Diploma shall be admitted at Convocation a second time to the same Title, notwithstanding that he may have qualified in an additional Branch or in an additional Language: an endorsement will be made upon his Diploma setting forth the further examinations passed by him, the dates of such examinations and the class in which he was placed.

iv. The provisions of Regulation 14 of this Chapter shall apply to all examinations held under this Regulation which shall, for the purposes of this regulation, be deemed to be equivalent to either the Preliminary or the Final Examination for a Title, as the case may be.

*Special.*

i. *Siromani*—

A candidate who has qualified for the Title of Siromani in any one of the special branches of study may further qualify in any other branch by passing an examination

in such branch consisting of the question papers set in the special part only for both the Preliminary and Final Examinations in that branch; provided that, in the case of candidates who have already qualified in one of the three South Indian Schools of Vedanta and seek to qualify in any other South Indian School of Vedanta, and such further examination in the special part alone shall consist only of four papers, viz., (1) the two papers on prescribed text-books relating to the Bhashya Prasthana included in the Preliminary Examination, and (2) the two papers prescribed on text-books; Special I and Special II relating to the Vada Prasthana included under (a) in the Final Examination (*vide* Regulation 6, Branch II). Such further examination shall consist of two parts—viz., Preliminary and Final. Each of these two parts shall consist only of the papers set therefor in the subjects of the special part in the year in which the candidate appears. These two parts may, at the option of the candidate, be taken in the same year or in separate years, the examination in the final part in the latter case being taken only after passing the examination in the preliminary part. In the case of candidates who take the examination in both the parts in the same year, those who secure the prescribed passing minimum in the preliminary part alone shall be declared to have passed the examination in that part, while those who fail to secure the prescribed minimum, in the preliminary part shall be deemed to have failed in the whole examination. The provision of regulation 14 shall apply to each of these two parts consisting only of the papers mentioned above.

## ii. *Siromani and Vidvan*—

A candidate who has qualified for the Title of Siromani may further qualify for the Title of Vidvan by passing the examination for that Title in accordance with the regulations, provided that such a candidate who offers for his examination Sanskrit and a Dravidian language, Marathi or Oriya shall be exempted from examination in Sanskrit and shall be permitted to take the whole examination in the vernacular language in one year, and may qualify for the Title of Vidvan by passing the examination in that language: provided also that such a candidate who offers for

his examination two Dravidian languages and is exempted by the Senate from the production of the required certificates shall be permitted to take the Preliminary and Final Examinations in successive years.

iii. *Vidvan*—

A candidate who has qualified for the Title of Vidvan may qualify in an additional language or in additional languages by passing the examination in such language or languages according to the regulations. A candidate who offers one additional language only may take the whole examination in that language in one year, and a candidate who offers for his examination two Dravidian languages and is exempted by the Senate from the production of the required certificates shall be permitted to take the Preliminary and Final Examinations in successive years.

Candidates desiring to qualify in an additional Dravidian language may offer either of the courses in that language detailed in Regulation 7 of this Chapter.

6. *Siromani*—

**Siromani—  
Course of  
Studies for**

1. The course of studies shall be as follows:—

*A. General.*

- (a) The History of Sanskrit Language and Literature.
- (b) Prescribed text-books.

*B. A Special Subject.*

ii. *For the preliminary examination*, the course in the general part shall comprise—

- (a) Prescribed text-books relating to the elements of Tarka, Mimamsa and Vyakarana;
- (b) Prescribed text-books chosen from among the Mantras, the Brahmanas, the Upanishads, the Grhya and Dharma Sutras and the Smritis.



*For the final examination, the course in the general part shall comprise the History of Sanskrit, Language and Literature.*

iii. The course in the special part shall consist of one of the following branches of study taken by the candidate:—

#### BRANCH I.—*Mimamsa Group.*

*For the preliminary examination, prescribed text-books relating to Purvamimamsa, Veda, Srauta and Dharma-sastra.*

*For the final examination, (a) prescribed text-books relating to Purvamimamsa. (b) The application of Mimamsa to Vedic exegesis and to the proper comprehension of the social and the legal aspects of the Dharma-sastras.*

#### BRANCH II.—*Vedanta Group.*

*For the preliminary examination, prescribed text-books relating to the Bhasya Prasthana of one of the three South Indian Schools of Vedanta, viz.—Advaita, Visistadvaita and Dvaita.*

*For the final examination, (a) prescribed text-books relating to the Vada Prasthana of one of the three South Indian Schools of Vedanta; and (b) prescribed text-books relating to Yoga, Sankhya and the elements of the three South Indian Schools of Vedanta.*

There shall be two papers on the books prescribed under (a) and one paper on the books prescribed under (b).

#### BRANCH III.—*Nyaya Group.*

*For the preliminary examination, prescribed text-books relating to the Nyaya and Vaishesika Darsanas including select portions of Purvavada.*

*For the final examination, prescribed text-books relating to Nyaya and Vaishesika Darsanas including select portions of Uttaravada and of the Sabdabodha works in Nyaya and Mimamsa.*

BRANCH IV.—*Vyakarana Group.*

*For the preliminary examination*, prescribed text-books relating to advanced Vyakarana, including select portions of standard commentaries on the *Siddhantakaumudi*.

*For the final examination*, prescribed text-books relating to advanced Vyakarana, including Sabdabodha works in Vyakarana and select portions of the *Mahabhasya* and standard commentaries on the *Siddhantakaumudi*.

BRANCH V.—*Sahitya Group.*

*For the preliminary examination*, prescribed Kavyas and Natakas and a simple work in poetics.

*For the final examination*, (a) prescribed text-books relating to Grammar, Prosody and Poetics; and (b) prescribed text-books of an advanced character, relating to Alankara Sastra.

BRANCH VI.—*Jyotisa Group.*

*For the Preliminary Examination*.—Prescribed books in Jyotisa and Ganita.

*For the Final Examination*—Prescribed books of an advanced character, in Jyotisa and Ganita.

BRANCH VII.—*Ayurveda Group.*

*For the Preliminary Examination*.—Prescribed books in Ayurveda and a certificate of having attended the practice of a Hospital for one year under an Ayurvedic Physician.

*For the Final Examination*.—Prescribed books of an advanced character in Ayurveda and a certificate of having attended the practice of a Hospital for 2 years under an Ayurvedic Physician.

iv. *Siromani Examination*—

(a) In the preliminary examination there shall be in the general part two papers on the prescribed text-books;

and, in the special part, two papers on the prescribed text-books.

(b) In the final examination there shall be in the general part one paper on the History of Sanskrit Language and Literature and in the special part there shall be three papers on the prescribed text-books.

**Vidvan—Course  
of Studies for**

7. A. Vidvan with Sanskrit.

i. *Sanskrit*—

The course shall be—

*For the preliminary examination*, prescribed Kavyas, Natakas, a simple work in Poetics and a prescribed portion in Grammar. The text-books prescribed under this head shall, as far as possible, be the same as those prescribed for the preliminary examination under Branch V Sahitya group—Siromani course.

*For the final examination*, (a) History of Sanskrit and Literature; and (b) prescribed text-books relating to Grammar, Prosody and Poetics. The text-books prescribed under this head shall be the same as those prescribed under (a) for the Sahitya Siromani final examination.

ii. *Vernacular language*—

The course shall be—

*For the preliminary examination*, (a) prescribed text-books in Poetry and Prose; and (b) Vernacular Composition.

*For the final examination*, prescribed text-books relating to Grammar, Prosody and Poetics.

iii. *Vidvan Examination*—

(a) In the preliminary examination there shall be one paper on the prescribed text-books relating to the selected Vernacular language, one paper in Vernacular Composition and two papers on the prescribed Sanskrit text-books. The last-mentioned papers shall, as far as possible, be the same as the papers on the text-books prescribed

for the preliminary examination under the special part of the Sahitya Siromani course, such questions on the prescribed text in Grammar as may be placed in these papers being required to be answered by the Vidvan candidates only. A lower standard than that of the Sahitya Siromani shall be required in the case of the Vidvan candidate.

(b) In the final examination, there shall be—

(i) A paper on the prescribed Sanskrit text-books.

(ii) A paper on the History of the Sanskrit Language and Literature.

*N.B.*—This paper shall be the same as the corresponding paper for the Siromani examination, a lower standard than that of Siromani being required in the case of Vidvan candidates.

(iii) A paper on the prescribed Vernacular text-books relating to Grammar, Prosody and Poetics.

*N.B.*—The first paper on the text-books prescribed for the Sahitya Siromani final examination shall be identical with paper (i) comprised in the Vidvan final examination and shall be on the text-books prescribed under (a) for the Sahitya Siromani final examination, a lower standard than that of the Sahitya Siromani being required in the case of Vidvan candidates. The second and third papers on text-books for the Sahitya Siromani final examination shall be on those prescribed therefor under (b).

**B. Vidvan**—with Tamil, Telugu, Kanarese, Malayalam, Oriya or Marathi as the main language and Sanskrit as a subsidiary language.

**I. The Selected Vernacular Language—**

The course shall be—

*For the preliminary examination, (a) prescribed text-books in Poetry and Prose; (b) prescribed text-books relating to Grammar; and (c) Composition.*

*For the final examination, (a) prescribed text-books in Poetry; (b) prescribed text-books relating to Advanced Grammar, Prosody and Poetics; (c) History of Language and Literature.*

## II. Sanskrit—

The course shall be—

*For the preliminary examination, (a) prescribed texts in simple Poetry and Prose; (b) Elementary Grammar taught in relation to (a); (c) Translation from Sanskrit into the selected Vernacular Language.*

*For the final examination, (a) prescribed text-books in Kavyas and Natakas; (b) Elementary Prosody and Poetics taught in relation to (a).*

## III. Vidvan Examination—

- (i) In the preliminary examination in the selected Vernacular Language there shall be two papers on the prescribed text-books in Poetry and Prose and those relating to Grammar and one paper on Composition. In Sanskrit there shall be one paper of two parts, the first containing questions on Sanskrit Grammar and Poetry and Prose text-books and the second containing passage or passages for translation from Sanskrit into the selected Vernacular Language.
- (ii) In the final examination in the selected Language there shall be one paper on Poetry text-books, one paper on text-books relating to Advanced Grammar, Prosody and Poetics, and one paper on History of Language and Literature. In Sanskrit there shall be one paper containing questions on text-books.

The standard required in Sanskrit shall not be higher than that required for that language taken as an optional subject in Part II of the Intermediate Examination.

C. Vidvan—two Dravidian languages without Sanskrit.

The course in each Dravidian language, the text-books prescribed and the examination therein shall be identical with those prescribed for the same language when offered along with Sanskrit for the Vidvan title; provided that a candidate who offers two Dravidian languages shall, at the end of the second year of his course, take his preliminary examination in one of the two Dravidian languages by answering all the three question papers in that language as set forth under 7-A (iii) *supra* for the preliminary and final examinations, and that he shall, at the end of the fourth year of his course, take his final examination in the other Dravidian language by adopting a similar procedure.

D. Vidvan—Tamil alone—

I. The course shall be—

*For the preliminary examination, (a) prescribed text-books in Poetry and Prose; (b) prescribed text-books relating to Grammar; (c) Composition; and (d) History of Tamil country.*

*For the final examination, (a) prescribed text-books in Poetry; (b) prescribed text-books relating to Advanced Grammar, Prosody and Poetics; (c) History of Language and Literature; and (d) Inscriptions.*

II. (a) In the preliminary examination in Tamil there shall be two papers on the prescribed text-books in Poetry and Prose and those relating to Grammar; one paper on composition; and one paper on the History of Tamil Country.

(b) In the final examination in Tamil there shall be one paper on Poetry text-books; two papers on text-books

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\* *Note.*—The course of study for the Vidvan Title under Regulation 7-A and C. in Telugu shall include Lakshnagrandhas (Grammar Prosody and Poetics) along with Lakshyagrandhas (Literature, Kavya and Prabandhas) for Preliminary and Final Examinations. For books—vide Appendix XI.

relating to Advanced Grammar; Prosody and Poetics; one paper on History of Language and Literature; and one paper on Inscriptions.

**Afzal-ul-Ulama**  
—course of studies for

8. The following shall be the course of studies in Arabic for the title *Afzal-ul-Ulama*:—

#### A. PRELIMINARY

The courses of study shall consist of—

- I. Tafsir and Hadith.
- II. Fiqh, 'Aqaid and Mantiq.'
- III. Prose Text-books.
- IV. Poetry Text-Books.
- V. History.
- VI. Translation from Arabic into Urdu and from Urdu into Arabic.

#### B. FINAL

The courses of study shall consist of—

- I. Tafsir and Hadith and Ilmul Hadith.
- II. Fiqh, Usulul Fiqh.
- III. Prose Text-books.
- IV. Poetry Text-books.
- V. History.
- VI. Translation from Arabic into Urdu and from Urdu into Arabic.
- VII. Mantiq and Balaghat.
- VIII. Composition.

Candidates for the Examination in Afzal-ul-ulama Title whose mother tongue is one of the Dravidian Languages shall be exempted from examination in the paper on Translation from Arabic into Urdu or *vice versa*, but shall be required to take in its stead a paper on an additional Text book in Arabic to be prescribed from time to time.

**Munshi-i-Fazil-  
course of studies  
for**

9. The following shall be the courses of studies for the title *Munshi-i-Fazil*—

*A. Preliminary*

The courses of study shall consist of Persian as the main language and Urdu as a subsidiary language, together with a text-book in Arabic.

Persian as the main subject will include—

- I. Persian Prose.
- II. Persian Poetry.
- III. Translation from Persian into Urdu and *vice versa*.
- IV. Composition in Persian.

Urdu as the subsidiary subject will include—

- I. Urdu Prose.
- II. Urdu Poetry.

Questions on Grammar may be put in the examination papers on the Text-books.

**B. FINAL**

The courses of study shall consist of Persian as the main language and Urdu as a subsidiary language, together with a text-book in Arabic.

Persian as the main subject will consist of

- I. Persian Prose.
- II. Persian Poetry.
- III. Translation from Persian into Urdu and *vice versa*.
- IV. History of Persian language and literature
- V. Composition in Persian.

Urdu as the subsidiary subject will consist of

- I. Urdu Prose.
- II. Urdu Poetry.



**Questions on Grammar may be put in the examination papers on the Text-books.**

10. All the papers in the examination for titles shall be set and answered in the respective languages to which they relate provided that papers in Sanskrit as the subsidiary language for the Vidvan course mentioned under 2 (c) in this chapter shall be set in Sanskrit and answered in the respective main languages of the candidates. Devanagari script shall be used for Sanskrit.

**Answering papers** II. No person shall be permitted to enter upon any of the foregoing Vidvan and Siro-mani courses of study for titles unless he has passed the admission test conducted by the Educational Department and obtained from the department a certificate of fitness for the course he proposes to take up, in the case of candidates taking Sanskrit as one of the two languages mentioned under 2 (a) and (b) of this Chapter.

In the case of candidates for the Vidvan Title selecting Tamil alone, or a Dravidian language, Marathi, or Oriya, as the main language, the admission test shall consist of the two papers set for the Intermediate Examination in Arts and Science in the corresponding Indian Language mentioned in Regulation 2 (c) of Chapter XXXIII, provided that, the question on translation in the three hours paper for the Intermediate Examination in Arts and Science shall, in the case of candidate for this admission test be replaced by questions on paraphrase or composition in the selected language. Candidates obtaining not less than 40 per cent. of the total number of marks in the two papers mentioned above taken together shall be certified eligible for admission to the respective Vidvan courses. A candidate for the Intermediate Examination in Arts & Science, who has obtained the prescribed passing minimum in Part II thereof shall, without any further admission test, be admitted to the Vidvan course, provided that the language selected for that course as the main or only language, is identical with the language in which he has passed Part II of the Intermediate Examination.

No person shall be permitted to enter upon the courses of study prescribed for the titles *Afzal-ul-Ulama* and *Munshi-i-Fazil*, unless he has obtained a certificate of fitness from the head of the approved institution which he proposes to enter.

12. The Syndicate shall be empowered to approve, for the purpose of the examination, such institutions as in its opinion are duly qualified to provide efficient instruction in one or more of the courses prescribed, and also to withdraw such approval if at any time it thinks fit to do so.

All the applications for approval under this Regulation shall be referred for opinion to the Boards of Studies concerned before they are finally disposed of by the Syndicate.

13. The Syndicate shall have the power to grant exemption from the production of either or both of the annual certificates of attendance required by candidates for the Oriental Title Examinations, provided that the candidate—

(1) is at the time of the examination at least twenty five years of age, subject to the proviso that the Syndicate may at its discretion exempt in special cases candidates from a strict compliance with the stipulation as regards age and

(2) is certified by the head of an approved institution, or by a member of the Board of Studies dealing with the subject or language offered for the examination, or by a Mahamahopadhyaya or a Shamsul-ul-Ulama or by any other competent scholar recognised by the Syndicate, to be qualified by his attainments to appear for the examination.

Applications for exemption under this Ordinance must be forwarded so as to reach the Registrar before the 1st October preceding the examination.

*Certificate for exemption.*

I hereby certify that, to the best of my knowledge and belief . . . will have completed his twenty-fifth year before the date of the next Oriental Title Examination, and that he is qualified by his attainments to appear for the examination.

*Date**Signature.*

14. A candidate shall be declared to have passed the preliminary examination if he obtains not less than forty per cent of the total marks in that examination. A candidate shall be declared to have passed the final examination if he obtains not less than forty per cent of the total marks in that examination. All other candidates shall be deemed to have failed. Successful candidates in the final examination shall be arranged in three classes:—
- Marks qualifying for a pass**
- Classification of successful candidates**

The first, consisting of those who obtain not less than sixty per cent;

the second, of those who obtain not less than fifty per cent; and the third, of those who obtain less than fifty per cent of the total marks.

(ii) CERTIFICATES OF PROFICIENCY IN ORIENTAL  
LEARNING.

15. Candidates for certificates shall offer for their examination one of the following subjects.
- Subjects for Examination**

- \* (1) Literary Criticism as applied to Sanskrit Literature.
- \* (2) Indian Philosophy in its relation to Western Philosophy.

- \* (3) Indo-European Philology with special reference to Sanskrit.
- \* (4) South Indian Languages and Literatures in their bearing on Ancient Indian History and Culture.
- \* (5) Hindu Law and Jurisprudence.
- \* (6) Muhammadan Law and Jurisprudence.
- \* (7) Literary Criticism as applied to Arabic or Persian Literature.
- \* (8) Arabian Philosophy in its relation to Western Philosophy.
- (9) Semitic Philology—for Arabic; and Indo-Persian Philology with special reference to Persian—for Persian (For Syllabus—*vide* Appendix XII.)

**Course of studies—two years**      16. The course of studies for the examination shall extend over a period of two years and shall be taken in an institution or institutions approved for the purpose by the Syndicate.

**Papers set and answered in English**      17. The question papers in the examination for certificates shall be set and answered in English.

**Day of Examination**      18. The examination for certificates shall follow immediately the Final Examination for Titles in Oriental Learning.

**Admission**      19. No candidate shall be admitted to the examination for certificates until the expiry of two years from the date of his appearing for and passing the preliminary examination for Titles.

20. The Syndicate shall be empowered, after reference to the Board of Studies in Sanskrit, or in Arabic as the case may be, to approve for the purpose of the examination for certificates such institutions as in its opinion are duly qualified to provide efficient instruction in accordance with the syllabuses prescribed for the several optional subjects of the examination and also to withdraw such approval if at any time it thinks fit to do so.

**Approval of Institutions**

21. Applications for exemption from the production of the prescribed certificate shall be forwarded so as to reach the Registrar before October 1, preceding the examination.

**Exemption**

22. Candidates for certificates, who have passed the examination for Titles and have satisfied the Examiners in one optional subject, may present themselves for examination in another optional subject after an interval of two years without further attendance in an approved institution.

**Candidates may qualify for another optional,**

23. In each subject for examination for certificates there shall be one paper of three hours' duration, which candidates shall be required to answer on the morning of the day following the final examination for Titles.

**Duration of paper**

24. The correspondents of approved institutions shall submit every year to the Syndicate a full report on the working and progress of their respective institutions during the previous academical year. This report should reach the Registrar not later than July 1, and should be referred to the Boards of Studies concerned for remarks and advice as to further action, if any.

### (iii) DEGREE OF MASTER OF ORIENTAL LEARNING.

25. Every candidate for the Degree of Master or Oriental Learning shall have passed the Examination for

Certificates of Proficiency in Oriental Learning and shall have thereafter pursued for two years an advanced course of study bearing upon the subject selected by him for the examination for that certificate.

26. Every candidate for the Degree shall be required to submit with his application—

- (a) a certificate in the following terms from the head of an institution approved under Regulation 12 of this chapter for imparting instruction in, or from a member of the Boards of Studies dealing with the subject of the candidate's Certificate of Proficiency, or from some competent scholar recognized by the Syndicate:—

*Form of Certificate*

I hereby certify that, to the best of my knowledge and belief,.....has pursued, for not less than two years after qualifying for the Certificate of Proficiency in Oriental Learning, an advanced course of study bearing upon the subject of his Certificate of Proficiency.

Station

*Signature*

*Date*

*with designation.*

- and (b) an original thesis in English showing evidence of original work connected with the special subject in which he qualified himself for his certificate, the candidate indicating in a preface to his thesis, and specially in notes, the sources from which his information is taken and the extent to which he has availed himself of the work of others.

The application and thesis must be forwarded so as to be received by the Registrar between 1st November and 1st December of any year.

27. The thesis shall be referred by the Syndicate to a Board consisting of not more than three persons who at their discretion may require the candidate to appear before

them to be tested orally with reference to the thesis (and to his facility in the use of the English Language). The Board shall report to the Syndicate the result of the examination of the thesis, and of the oral examination, if any, stating whether, in their opinion, the candidate is, by reason of his attainments, a fit person to receive the Degree of Master of Oriental Learning. The Syndicate shall publish the name of each successful candidate for the Degree with the title of his thesis.

## CHAPTER XLII (Regulations)

### \*Diploma in Economics.

**Eligibility for Diploma** 1. No candidate shall be eligible for the Diploma in Economics unless he has completed the prescribed course of study and has satisfied the examiners in the qualifying examination. The examiners may declare any candidate to have passed the examination with distinction.

**Course of Study** 2. The course of study shall be :—

1. Economics.
2. Statistical Methods (2 hours paper).
3. Recent Economic History and Economic Geography.
4. Rural Economics.
5. Social Economics (including Elements of Social Institutions).
6. A special subject in 4 or 5.

Every candidate shall also submit before 1st March a short thesis based on original enquiry on some problem of limited scope connected with either 4 or 5.

**Qualification for admission** 3. The course of study shall be open only to students who have qualified for a degree in this University or other recognised Universities.

**Application** 4. Applications to enter upon the course of study must reach the Professor of Indian Economics not later than July 1 of each year

\*For Regulations in force prior to 1929-30 vide Appendix XXVII.

5. The course for the Diploma in Economics shall be normally for one year, but for part-time students it shall extend over two years.  
**Duration of Course**
6. No student shall be admitted to the examination unless he or she has attended not less than three-fourths of the lectures and classes provided, and also produces the prescribed certificate.  
**Attendance**
7. A fee of Rs. 75 shall be paid to the University by each student on admission to the course, except in the case of part-time students who may pay the fee in two annual instalments of Rs. 37-8-0.  
**Fee**
8. Notwithstanding anything contained in the foregoing Regulations, it shall be competent to the Syndicate, by previous notice in the Gazette, to suspend for any year or any number of years the courses and examinations for the Diploma in Economics, provided always that any student permitted to enter upon the courses, who qualified for the certificate prescribed in Regulation 6, shall be permitted to present himself for examination in accordance with the Regulations, at the earliest opportunity at which he would have been entitled to appear but for suspensory notice.  
**Syndicate competent to suspend course and examination**
9. Notwithstanding anything contrary contained in this chapter, students who were admitted to the Diploma course in 1928-29 will be permitted to continue their course in 1929-30 under the old regulations.

### **Diplomas in French & German.**

1. No candidate shall be eligible for a diploma in French or German who has not undergone a prescribed course and satisfied the Examiners in the qualifying Examination.  
**Eligibility for Diploma**
2. No candidate shall be admitted to the courses of instruction in French and German who has not passed the Matriculation Examination of this University or an examination recognised by the Syndicate as equivalent thereto,  
**Qualification for Admission**



3. The course which is a part-time course is primarily intended for such persons as are desirous of proceeding over-seas for higher studies, but shall be open to other persons approved by the Syndicate, provided they have satisfied the condition laid down in Law 2 of this Chapter.

**Course—for whom intended**

4. The course shall consist of three terms extending over one academic year. Applications for admission must reach the Registrar not later than 15th May.

**Duration of the course**

5. For the purpose of entrance to the course no previous acquaintance with the language is required and the candidates will be taught on a syllabus and text books prescribed from year to year.

6. There shall be an examination held yearly in the first week of July or on such other dates as may be fixed by the Syndicate.

**Date of Examination**

7. No student shall be admitted to the examination unless he has attended not less than 75 per cent. of the total attendances at lectures and has produced a certificate from the lecturer certifying that this progress and conduct have been satisfactory. The examination shall consist of two papers, the first of three hours' and the second of two hours' duration. The first paper shall contain questions on text-books and grammar, and the second paper shall contain questions on translation from the selected language into English and *vice versa*.

**Attendance**

**Examination**

8. The fee for the course in either French or German shall be Rs. 45 payable to the University on admission to the Course.

**Fee**

- Syndicate competent to suspend course and Examination**
9. Notwithstanding anything contained in this Chapter, it shall be competent to the Syndicate, by previous notice in the Fort St. George Gazette, to suspend for any year or any number of years the course and examination for the Diploma in French or German.

## CHAPTER XLIII (Regulations)

### Time-tables for Examinations

**Time-tables and subjects for examination**

The order of time and subjects in which the several examinations shall be conducted shall be as set forth in the following tables and the number of marks assignable to each subject shall be as therein specified:—

#### Provided always

- (1) that, in the event of no candidate appearing for any paper in the B.A. (Honours) Degree Examination, the time-tables for that examination may be altered by the Syndicate, but the order of the papers shall, so far as possible, be maintained;
- (2) that, in the case of Part II of the B.A. Examination held in April and the B.Sc. Examination, the first day of the examination in each of the optional groups or branches shall be determined annually by the Syndicate and shall be notified in the *Gazette* in the month of February;
- (3) that, unless otherwise determined by the Syndicate the Practical, Clinical and Oral Examinations shall follow the Written Examinations;
- (4) that the time-table for the Vidvan Examination as may be annually determined by the Syndicate shall be duly notified in the *Gazette* in the preceding February.

## MATRICULATION EXAMINATION

Days	Hours	Subjects	Marks
First day {	10-12-30 2-4-30	English, 1st paper Do. 2nd paper	... 75 } ... 75 } 150
Second day {	10-1 2-4-30	Arithmetic and Algebra Geometry	... 80 } ... 70 } 150
Third day {	10-1 2-4	Second Language History	... 75 ... 50
Fourth day {	10-1 2-4	Elementary Science Geography	... 75 ... 50

## INTERMEDIATE EXAMINATION IN ARTS AND SCIENCE

(REVISED REGULATIONS).

## PART I—ENGLISH.

Days	Hours	Subjects	Marks
First day ...	10-1	Poetry ... ..	70
Second day ...	10-12-30	Prose ... ..	60
Third day ...	10-1	Composition ...	70

## PART II—A SECOND LANGUAGE.

Days	Hours	Subjects	Marks
Fourth day.	10-1	Text books, Grammar, etc., for Sanskrit, Arabic, Persian and Hebrew ...	60
	10-12	Text books, Grammar, etc., for other languages ...	40
	2-4	Composition and Translation for Sanskrit, Arabic, Persian and Hebrew ...	40
	2-5	Composition and Translation for other languages ...	60

## PART III—GROUP A.

Days	Hours	Subjects	Marks
Fifth day ...	{ 10—12 2—4	Mathematics—First paper ... Do. Second paper...	50 50
Sixth day ...	{ 10—12 2—4	Natural Science—First paper Do. Second paper	50 50
Seventh day.	{ 10—12 2—4	Physics—First paper Do. Second paper	50 50
Eighth day.	{ 10—12 2—4	Chemistry—First paper Do. Second paper	50 50
Ninth day ...	{ 10—12 2—4	Geography—First paper Do. Second paper	50 50

## GROUP B.

Days	Hours	Subjects	Marks
Tenth day ...	{ 10—12 2—4	Ancient History I—History of Greece... Do. II—History of Rome ...	50 50
Eleventh day	{ 10—12	Modern History I—(History of Great Britain and Ireland—Political and Economic)	50
	{ 2—4	Modern History II—do.	50
Twelfth day.	{ 10—12 2—4	Indian History—First paper ... Do. Second paper ...	50 50
Thirteenth day ...	{ 10—12 2—4	Logic—First paper ... Do. Second paper	50 50

GROUP B—*contd.*

Days	Hours	Subjects	Marks
Fourteenth day.	10—1	Text-books, Grammar, etc., for Sanskrit, Arabic, Persian and Hebrew ...	60
	10—12	Text-books, Grammar, etc., for other languages ...	40
	2—4	Composition and Translation for Sanskrit, Arabic, Persian and Hebrew ...	40
	2—5	Composition and Translation for other languages ...	60

## GROUP C.

Days	Hours	Subjects	Marks
Fifteenth day.	10—12 3 Hours (Time and Date will be notified later).	Agriculture (Written) ...	50
		Do. (Practical and Oral) ...	50
Sixteenth day.	10—12	Electrical Engineering—First paper ...	50
	2—4	Do. Second paper ...	50
Seventeenth day.	10—12	Mechanical Engineering—First paper ...	50
	2—4	Do. Second paper ...	50
Eighteenth day.	10—12 2 Hours (Date and Time will be specified later.)	Surveying—First paper (Written) ...	50
		Do. Practical ...	50
Nineteenth day.	10—12	Architecture—First paper ...	50
	2—4	Do. Second paper ...	50
Twentieth day.	10—12	Drawing—Written ...	50
	2—4	Do. Practical ...	50

Days	Hours	Subjects	Marks
Twenty-first day.	10—1 Time and date will be specified later.	Indian or Western Music—Theory...	60
		Do. do. Practical ...	40

*Note.*—Every year the exact dates of Part III of the Intermediate Examination will be notified on receipt of information from the constituent and affiliated Colleges as to the different groupings of subjects offered by their candidates.

**B.A. DEGREE EXAMINATION.**

(REVISED REGULATIONS)

TIME-TABLES WILL BE PRINTED IN THE CALENDAR  
FOR 1930—31

**B.A. (HONOURS) DEGREE EXAMINATION  
PRELIMINARY EXAMINATION**

Days	Hours	Subjects	Marks
First day ...	10—1	Composition ... ..	90
Second day.	10—12—30	Nineteenth Century Prose or English History ... ..	60
		Total ...	150

## FINAL.

*Branch I (MATHEMATICS)*

Days	Hours	Subjects	Marks
First day ...	10—1	Pure Mathematics I ...	150
Second day...	10—1	Applied Mathematics I ...	150
Third day ...	10—1	Pure Mathematics II ...	150
Fourth day .	10—1	Applied Mathematics II ...	150
Fifth day ...	10—1	Applied Mathematics III ...	150
Sixth day ...	10—1	Pure Mathematics III ...	150
Seventh day.	10—1	Optional Subject I ...	225
Eighth day...	10—1	Optional Subject II ...	225
Total ...			1,350

*Branch II (PHILOSOPHY)*

Days	Hours	Subjects	Marks
First day ...	10—1	Logic and Theory of Knowledge ...	200
Second day ...	10—1	Psychology or Ethics ...	200
Third day ...	10—1	Outlines of European Philosophy ...	200
Fourth day...	10—1	Outlines of Indian Philosophy ...	200
Fifth day ...	10—1	Optional Subjects ...	200

*Branch II (Philosophy)—contd.*

Days.	Hours.	Subjects.	Marks.
Sixth day ...	10—1	Essay ... ..	200
Seventh day .	10—1	General Philosophy ... ..	200
Total ...			1,400

*Branch III (HISTORY, ECONOMICS AND POLITICS)*

## A.

Days	Hours.	Subjects.	Marks.
First day ...	10—1	Essay ... ..	200
Second day...	10—1	Indian History—General ...	200
Third day ...	10—1	Indian History—Special Subject ...	200
Fourth day...	10—1	Constitutional History of Great Britain and Ireland ...	200
Fifth day ...	10—1	History—Special Subject ...	200
Sixth day ...	10—1	Politics—General ...	200
Seventh day .	10—1	History—Special Subject ...	200
Eighth day...	10—1	Economics—General ...	200
Ninth day ...	10—1	Politics—Special Subject ...	200
Tenth day ...	10—1	Economic History—Special Subject ...	200



*Branch III (HISTORY, ECONOMICS AND POLITICS)—contd.*

## A

Days.	Hours.	Subjects.	Marks.
Eleventh day.	10—1	Economics—Special Subject ...	200
Twelfth day...	10—1	Economics—Special Subject ...	200
Total ...			2,400

## B.

Days.	Hours.	Subjects.	Marks.
First day ...	10—1	Essay ... ..	200
Second day...	10—1	Indian History—General ...	200
Third day ...	10—1	Economics I ... ..	200
Fourth day...	10—1	Politics ... ..	200
Fifth day ...	10—1	Economics II ... ..	200
Sixth day ...	10—1	Special Subject ... ..	200
Seventh day.	10—1	Special Subject ... ..	200
Total ...			1,400

*Branch IV (TWO LANGUAGES OTHER THAN ENGLISH)*

The time-tables for the examinations in languages will be identical with the time-tables detailed under Group (vi) of the B.A. Degree Courses, (under the old Regulations) with the word 'Composition' substituted in the place of the Related Subject or Language detailed under Eleventh day, 10—1. Candidates for Honours will each be required to answer the papers set for the B.A. Degree Examination in the languages selected for Honours. The examination in

*Branch iv (Two Languages other than English)—contd.*

Part II of group (vi) (under the old Regulations and Part III of Group (v) under the new Regulations) and Branch iv shall commence on or after the second Monday in April, as will be annually determined by the Syndicate and notified in the Gazette in the preceding February. The Syndicate shall so fix the dates of the examinations in Group (vi) (old Regulations) and Group (v) (new Regulations) and Branch iv as to avoid, as far as may be practicable, the setting of duplicate sets of question papers in the same subject.

*Branch v (ENGLISH LANGUAGE AND LITERATURE)*

Days	Hours	Subjects.	Marks
First day ...	10—1	History of the English Language ...	125
Second day...	10—1	Shakespeare ...	200
Third day ...	10—1	Gothic ...	125
Fourth day...	10—1	Modern English Literature First Paper.	150
Fifth day ..	10—1	Beowulf and other Old English Texts ...	125
Sixth day ...	10—1	Modern English Literature. Second Paper ...	150
Seventh day,	10—1	Chaucer and other Middle English Texts ...	125
Eighth day.	10—1	Essay ...	150
Ninth day ...	10—1	Special Period. First Paper ...	175
Tenth day ...	10—1	Do. do. Second Paper ...	175
Total ...			1,500

*Branch vi (SANSKRIT LANGUAGE AND LITERATURE)*

Days	Hours	Subjects	Marks
First day ...	10—1	Comparative Philology and Comparative Grammar ... ..	200
Second day...	10—1	History of the Sanskrit Language and Literature ... ..	150
Third day ...	10—1	Prescribed Text-books : General ...	150
Fourth day...	10—1	Grammar, Prosody and Poetics ...	150
Fifth day ...	10—1	Translation ... ..	150
Sixth day ...	10—1	Prescribed Text-books : Special (i) ... ..	150
Seventh day.	10—1	Prescribed Text-books : Special (ii) ...	150
Eighth day...	10—1	Do. do. (iii)	150
Ninth day ...	10—1	Essay... ..	150
Total ...			1,400

*Branch vii (ARABIC LANGUAGE AND LITERATURE)*

Days	Hours	Subjects	Marks
First day ...	10—1	Comparative Philology and Comparative Grammar ... ..	200
Second day...	10—1	History of the Arabic Language and Literature... ..	150

*Branch vii (Arabic Language and Literature)—contd.*

Days	Hours	Subjects	Marks
Third day ...	10—1	Prescribed Text-books : General ...	150
Fourth day ...	10—1	Grammar, Prosody and Poetics ...	150
Fifth day ...	10—1	Translation ...	150
Sixth day ...	10—1	Prescribed Text-books : Special (i) ...	150
Seventh day ...	10—1	Prescribed Text-books : Special (ii) ...	150
Eighth day ...	10—1	Do do. do. (iii) ...	150
Ninth day ...	10—1	Essay ...	150
Total ...			1,400

MASTER OF ARTS DEGREE EXAMINATION

BRANCH I (MATHEMATICS)

Days	Hours	Subjects	Marks
First day ...	10—1	Pure Mathematics I ...	150
Second day ...	10—1	Applied Mathematics I ...	150
Third day ...	10—1	Pure Mathematics II ...	150
Fourth day ...	10—1	Applied Mathematics II ...	150
Fifth day ...	10—1	Applied Mathematics III ...	150

MASTER OF ARTS DEGREE EXAMINATION—*contd.*BRANCH I (MATHEMATICS)—*contd.*

Days	Hours	Subjects	Marks
Sixth day ...	10—1	Pure Mathematics III ...	150
Seventh day.	10—1	Optional Subject I ...	225
Eighth day...	10—1	Optional Subject II ...	225
Total ...			1,350

## BRANCH II (MENTAL AND MORAL SCIENCE)

Days	Hours	Subjects	Marks
First day ...	10—1	Logic and Theory of Knowledge ...	200
Second day...	10—1	Psychology or Ethics ...	200
Third day ...	10—1	Outlines of European Philosophy ...	200
Fourth day...	10—1	Outlines of Indian Philosophy ...	200
Sixth day ...	10—1	Essay ... ..	200
Seventh day.	10—1	General Philosophy ...	200
Total ...			1,200

## BRANCH III (HISTORY, ECONOMICS AND POLITICS.)

## A.

Days.	Hours.	Subjects.	Mark.
First day ...	10—1	Essay ...	200
Second day...	10—1	Indian History—General ...	200
Third day ...	10—1	Indian History—Special Subject ...	200
Fourth day ...	10—1	Constitutional History of Great Britain and Ireland ...	200
Fifth day ...	10—1	History—Special Subject ...	200
Sixth day ...	10—1	Politics—General ...	200
Seventh day.	10—1	History—Special Subject ...	200
Eighth day..	10—1	Economics—General ...	200
Ninth day ...	10—1	Politics—Special Subject ...	200
Tenth day ...	10—1	Economic History—Special Subject ...	200
Eleventh day.	10—1	Economics—Special Subject ...	200
Twelfth day.	10—1	Economics—Special Subject ...	200
Total ...			2,400

## B

Days.	Hours	Subject	Marks.
First day ...	10—1	Essay ... ..	200
Second day..	10—1	Indian History—General ...	200
Third day ...	10—1	Economics I ... ..	200
Fourth day...	10—1	Politics ... ..	200
Fifth day ...	10—1	Economics II ... ..	200
Sixth day ...	10—1	Special Subject ... ..	200
Seventh day.	10—1	Special Subject ... ..	200
Total ...			1,400

*Note.*—For Time-table for Branch IV, Two Languages other than English, *vide* time-tables under Group (vi) of the B.A. Degree Examination (old Regulations) and Branch iv of the B.A. (Honours) Degree Examination.

## BRANCH V (ENGLISH LANGUAGE AND LITERATURE)

Days.	Hours.	Subject.	Marks.
First day ...	10—1	History of the English Language ...	125
Second day...	10—1	Shakespeare... ..	300
Fourth day...	10—1	Modern English Literature, First Paper...	200
Fifth day ...	10—1	Beowulf and other Old English Texts ...	125

**BRANCH V (ENGLISH LANGUAGE AND LITERATURE)—*contd.***

Days	Hours	Subjects.	Marks
Sixth day ...	10—1	Modern English Literature Second Paper	200
Seventh day.	10—1	Chaucer and other Middle English Texts.	125
Eighth day.	10—1	Essay ... ..	225
Total ...			1,300

**BRANCH VI (SANSKRIT LANGUAGE AND LITERATURE)**

Days	Hours	Subjects	Marks
Second day.	10—1	History of the Sanskrit Language and Literature ...	200
Third day ...	10—1	Prescribed Text books—General ...	150
Fourth day ...	10—1	Grammar, Prosody and Poetics ...	150
Fifth day ...	10—1	Translation ...	150
Sixth day ...	10—1	Prescribed Text-books—Special (i) ...	200
Seventh day.	10—1	Prescribed Text books—Special (ii) ...	200
Eighth day...	10—1	Prescribed Text-books Special (iii). ...	200
Ninth day ...	10—1	Essay ... ..	150
Total ...			1,400



## BRANCH VII (ARABIC LANGUAGE AND LITERATURE)

Days	Hours	Subjects	Marks
Second day...	10—1	History of the Arabic Language and Literature ...	200
Third day ...	10—1	Prescribed Text-books—General ...	150
Fourth day...	10—1	Grammar, Prosody and Poetics ...	150
Fifth day ...	10—1	Translation ...	150
Sixth day ...	10—1	Prescribed Text-books—Special (i) ...	200
Seventh day.	10—1	Prescribed Text-books—Special (ii) ...	200
Eighth day...	10—1	Prescribed Text-books—Special (iii) ...	200
Ninth day ...	10—1	Essay ...	150
Total ...			1,400

## B.Sc. DEGREE EXAMINATION

## PART I

Days	Hours	Subjects	Marks
First day ...	10—1	Composition ...	90
Second day...	10-12-30	Nineteenth Century Prose ...	60
Total ..			150

**PART II**

*Mathematics •*

Days	Hours	Subjects	Marks
Sixth day ...	10—1	Algebra and Trigonometry ...	90
Seventh day	10—12	Dynamics ... ..	60
	2—4	Astronomy ... ..	60
Eighth day...	10—1	Calculus and Analytical Geometry ...	90
Total ...			300

*Physics •*

Days	Hours	Subjects	Marks
Ninth day ...	10—1	Hydrostatics, Properties of Matter and Heat ... ..	100
Tenth day ...	10—1	Light, Electricity and Sound ...	100
Date and hours of Practical Examination will be notified later.		Practical Physics ... ..	100
Total ...			300

• For combined time-table for the examination for the B. A. Degree Groups (i), (ii) and (iii) (old Regulations) and for the B. Sc. Degree, Part II, see Appendix XXIII.

For scheme of examinations for the B.A. Degree in Groups (i), (ii) and (iii) (old Regulations) and for the B.Sc. Degree, Part II, showing common papers and examinations, see Appendix XXIV.

*Chemistry*

Days	Hours	Subjects	Marks
Eleventh day ...	10—I	Chemistry of Carbon Compounds ...	100
Twelfth day	10—I	General Chemistry ...	100
Date and hours of Practical Examinations will be notified later.		Practical Chemistry ...	100
Total ...			300

*Botany* \*

Sixth day ...	10—I	Botany I ...	100
Seventh day.	10—I	Do. II ...	100
Dates and hours of Practical Examinations will be notified later.		Practical Botany I ...	50
		Do. do, II ...	50
Total ...			300

*Zoology* \*

Sixth day ...	10—I	Zoology I ...	100
Seventh day.	10—I	Do. II ...	100
Dates and hours of Practical Examinations will be notified later.		Practical Zoology I ...	50
		Do. do, II ...	50
Total ...			300

*Geology* \*

Sixth day ...	10—I	Geology I ...	100
Seventh day.	10—I	Do. II ...	100
Dates and hours of Practical Examinations will be notified later		Practical Geology I ...	50
		Do. do, II ...	50
Total ...			300

\* See note under Mathematics on page 437

**B.Sc. (HONOURS) DEGREE EXAMINATION**

*Branch i (MATHEMATICS)*

Days	Hours	Subjects			Marks
First day ...	{ 10—1 2—5	Pure Mathematics	...	...	150
		Applied Mathematics	...	...	150
Second day...	10—1	Pure Mathematics	...	...	150
Third day ...	10—1	Applied Mathematics	...	...	150
Fourth day...	{ 10—1 2—5	Applied Mathematics	...	...	150
		Pure Mathematics	...	...	150
Fifth day ...	10—1	Optional Subject...	...	...	225
Sixth day ...	10—1	Optional Subject...	...	...	225
Total ...					1,350

*Branch ii (PHYSICS)*

First day ...	{ 10—1 2—5	Properties of Matter ...	...	120
		Heat and Sound ...	...	120
Second day...	{ 10—1 2—5	Sound and Light ...	...	120
		Magnetism and Electricity ...	...	120
Third day ...	{ 10—1 2—5	Optional Subject...	..	120
		Chemistry ...	...	100
Fourth day...	10—4	Practical Examination in Chemistry	...	100
Fifth & Sixth days ...	} 10—4	{ Practical Examination in Physics	...	400
		{ Laboratory note-books in Physics	...	200
Total ...				1,400

Branch iii (CHEMISTRY)						
Days		Hours	Subjects			Marks
First day ...	{	10—1	Chemistry	...	...	125
		2—5	Do.	...	...	125
Second day...	{	10—1	Chemistry	...	...	125
		2—5	Do.	...	...	125
Third day ...	{	10—1	Optional Subject	...	...	100
		2—5	Physics	...	...	100
Fourth day...		10—4	Practical Examination in Physics			100
Fifth, Sixth and Seventh days	{	10—4	{ Practical Examination in Chemistry			400
			{ Laboratory note-books in Chemistry			200
Total ...						1,400*

*Branch iv. BOTANY, v. ZOOLOGY AND vi. GEOLOGY*  
(As MAIN SUBJECT)

Days	Hours	Subjects	Marks,
First day ...	{ 10—1	Algae, Fungi and Bryophytes ...	150
	{ 2—5	Pteridophytes, Gymnosperms and the Morphology of Angiosperms ...	150
Second day...	{ 10—1	Histology, Physiology. Ecology and distribution ...	150
	{ 2—5	Systematic Botany, Economic Botany and general principles ...	150
Third day ...	{ 10—1	Practical Examination I ...	100
	{ 2—5	Do. do II ...	100
Fourth day...	{ 10—1	Practical Examination III ...	100
	{ 2—5	Laboratory note-books ...	100
Fifth day ...	10—1	Special Subject in Botany ...	100
Total Botany ...			1,100
Total Zoology or Geology ...			1,000

The examination in the subsidiary subjects, in the case of candidates taking Branch iv, v or vi will be at the times prescribed for the B.Sc. Degrees.

**XLIII] TIME-TABLES FOR B.Sc. (HONS) & B.Sc. IN AGRICULTURE DEGREE EXAMINATIONS.**

**441**

**B.Sc. DEGREE EXAMINATION IN AGRICULTURE.**

*Part I*

Days	Hours	Subjects	Marks
First day ... {	7—10	Engineering (Written) ...	50
	1— 4	Botany ( do. ) ...	50
Second day... {	7—10	Chemistry (Written) ...	50
	1-- 4	Zoology ( do. ) ...	50
Third day ... {	7—10	Agriculture I (Written) ...	50
	1— 4	Agriculture II including Animal Hygiene (Written) ...	50
Days and hours to be notified.	{	Engineering (Practical) ...	50
		Botany ( do. ) ...	50
		Agriculture (Animal Hygiene) (Practical) ...	50
		Chemistry ( do. ) ...	50
		Zoology ( do. ) ...	50
		Agriculture ( do. ) ...	100
Total ...			650

*Part II*

Days	Hours	Subjects	Marks
First day ... {	7—10	Botany I (Written) ...	100
	1— 4	Do II ( do. ) ...	100
Second day... {	7—10	Chemistry I (Written) ...	100
	1— 4	Do. II ( do. ) ...	100
Third day ... {	7—10	Agriculture I (Written) ...	100
	1— 4	Do. II ( do. ) ...	100
Fourth day...	7—10	Agriculture—Essay ...	50
Days and hours to be notified.	{	Botany I (Practical) ...	50
		Do. II ( do. ) ...	50
		Chemistry I ( do. ) ...	50
		Do. II ( do. ) ...	50
		Agriculture I ( do. ) ...	100
		Do. II ( do. ) ...	100
Total ...			1,050

## L.T. DEGREE EXAMINATION

Days	Hours	Subjects	Marks
First day ...	10—1	Theory and Practice of Education A.B.C. I ... ..	100
	2—5	Theory and Practice of Education A.B.C. II ... ..	100
Second day...	10—1	Theory and Practice of Education D(1) III ... ..	100
	2—5	Theory and Practice of Education D(2) IV ... ..	100
Total ...			400

## FIRST EXAMINATION IN LAW

Days	Hours	Subjects	Marks
First day ...	10—1	Jurisprudence ... ..	100
	2—5	Roman Law ... ..	100
Second day...	10—1	Contracts, including Negotiable Instru- ments and Specific Relief I	100
	2—5	Contracts, including Negotiable Instru- ments and Specific Relief II	100
Third day ...	10—1	The Law of Torts ... ..	100
	2—4	Indian Constitutional Law ... ..	70
Total ...			570

**B.L. DEGREE EXAMINATION.**

Days	Hours	Subjects	Marks
First day ...	{ 10—1 2—5	Law of Property I ... ..	100
		Do. II ... ..	100
Second day...	{ 10—1 2—4	Hindu Law ... ..	120
		Muhammadan Law ... ..	75
Third day ...	{ 10—12 2—4	Madras Land Tenures ... ..	70
		Law of Evidence ... ..	80
Fourth day...	10—1	Criminal Law ... ..	100
Total ...			645

**M.L. DEGREE EXAMINATION.**

**BRANCH I.**

Days	Hours	Subjects	Marks
First day ...	{ 10—1 2—5	Jurisprudence ... ..	150
		Legislation ... ..	150
Second day..	{ 10—1 2—5	Roman Law—General ... ..	150
		Do. Digest ... ..	150
Third day ...	{ 10—1 2—5	International Law—Public ... ..	150
		Do. Private ... ..	150
Fourth day...	{ 10—1 2—5	Constitutional Law & History ... ..	150
		Legal History ... ..	150
Total ...			1,200



## BRANCH II.

Days	Hours	Subjects	Marks
First day ...	10—1	Real Property--General ...	150
	2—5	Do. do. ...	150
Second day...	10—1	Real Property--Transfer ...	150
	2—5	Do. do. ...	150
Third day ...	10—1	The Law of Trusts, etc. ...	150
	2—5	Do. Wills, etc. ...	150
Fourth day...	10—1	History of the English and Indian Land Laws.	150
	2—5	The Law of Easements and Profits ...	150
Total ...			1,200

## BRANCH III.

First day ...	10—1	Law of Contracts (in general) ...	150
	2—5	Bailments, Carriers, etc. ...	150
Second day...	10—1	Agency, Partnership and Companies ...	150
	2—5	Domestic relations ...	150
Third day ...	10—1	Law of Torts (in general), etc. ...	150
	2—5	Negligence, Nuisance, etc. ...	150
Fourth day...	10—1	Mercantile Law, etc. ...	150
	2—5	Maritime Law, etc. ...	150
Total ...			1,200

# **XVIII] TIME-TABLES FOR M.L. & PRE-REGISTRATION 445** **EXAMINATIONS.**

## **BRANCH IV**

Days	Hours	Subjects	Marks
First day ...	10-1	Hindu Law, etc. ... ..	150
	2-5	Do. ... ..	150
Second day.	10-1	Muhammadian Law ... ..	150
	2-5	Do. ... ..	150
Third day ...	10-1	Statute Law relating to constitutional matters, etc. ... ..	150
	2-5	Do. do. ... ..	150
Fourth day.	10-1	Customary and Statute Law, etc. ...	150
	2-5	Do. do. ...	150
Total ...			1,200

## **PRE-REGISTRATION EXAMINATION.**

Days	Hours	Subjects	Marks
First day ...	10-1	Inorganic Chemistry (Written) ...	100
	2-5	Physics (Written) ...	100
Second day...	10-1	Biology (Written) ...	100
Dates and hours will be duly notified.		Inorganic Chemistry (Practical) ...	50
		Physics (Practical) ... ..	50
		Biology (do) ... ..	50
		Inorganic Chemistry (Oral) ...	50
		Physics (Oral) ...	50
		Biology (Oral) ...	50
Total ...			600

## FIRST M.B. &amp; B.S. EXAMINATION. (New Regns.)

Days	Hours	Subjects	Marks
First day ...	10-1	Organic Chemistry (Written) ...	50
	2-5	Physiology including Bio-Chemistry (Written) ... ..	100
Second day {	10-1	Anatomy including Elements of Human Embryology (Written) ... ..	100
	2-5	Pharmacology (Written) ... ..	100
Days and hours will be duly notified.	{	Organic Chemistry (Practical) ...	50
		Do. (Oral) ... ..	50
		Physiology including Bio-Chemistry (Practical and Oral) ... ..	100
		Anatomy including Elements of Human Embryology (Dissections) ...	50
		Anatomy including Elements of Human Embryology (Oral) ... ..	50
		Pharmacology (Practical) ... ..	50
		Do. (Oral) ... ..	50
		Total ...	750

## SECOND M.B. &amp; B.S. EXAMINATION. (New Regns.)

Days	Hours	Subjects	Marks
First day... {	10-1	General Pathology and Bacteriology (Written) ... ..	100
	2-5	Hygiene (Written) ... ..	100
Second day ...	10-1	Ophthalmology ... ..	50
Days and hours will be duly notified.	{	General Pathology and Bacteriology (Practical) ... ..	50
		Do do (oral) ... ..	50
		Hygiene (Practical and Oral) ... ..	50
		Ophthalmology (Practical and Oral) ... ..	50
Total ... ..			450

**XLIII] TIME-TABLES FOR FINAL M.B. & B.S., 447**  
**DIPLOMA IN MIDWIFERY AND M.D. EXAMNS.**

**FINAL M.B. & B.S. DEGREE EXAMINATION. (New Regns.)**

Days	Hours	Subjects	Marks
First day ...	{ 10—1 2—5	Medicine (Written) ...	100
		Surgery (Written) ...	100
Second day...	2—5	Forensic Medicine (Written) ...	100
Third day ...	10—1	Obstetrics and Gynaecology (Written) ...	100
Days and hours will be notified later.	{ 10—1	Forensic Medicine (Oral) ...	50
		Medicine (Clinical) ...	150
		Do (Oral) ...	50
		Surgery (Clinical) ...	150
		Do (Oral) ...	50
		Operative Surgery ...	50
		Obstetrics and Gynaecology (Clinical, Practical and Oral) ...	100
Total ...			1,000

**DIPLOMA IN MIDWIFERY EXAMINATION.**

First day ...	10—1	Midwifery	100
	2—5	Gynaecology and Diseases of a new Born Child	100
Second day...	10—4	Clinical and <i>Viva Voce</i> examinations	100
Total ...			300

**M. D. DEGREE EXAMINATION,  
BRANCH I**

Days	Hours	Subjects
First day ...	10—1	Medicine
	2—5	Medicine, including Mental Diseases and Pathology. First Paper.
Second day...	10—1	Medicine, including Mental Diseases and Pathology. Second Paper.
Third day ...	10—4	Clinical and Oral Examinations.

## BRANCH II

Days	Hours	Subjects
First day ...	{ 10—1 2—5	Medicine. Midwifery and Diseases of Women and Children, including Pathology. First Paper
Second day...	10—1	Midwifery and Diseases of Women and Ch'dren including Pathology. Second Paper.
Third day ...	10—4	Clinical and Oral Examinations.

## BRANCH III

First day ...	10—1	Medicine.
Second day...	{ 10—1 2—5	Pathology. First Paper. Pathology. Second Paper.
Third day ...	10—4	Practical and Oral Examinations.

## BRANCH IV

First day ...	{ 10—1 2—5	Medicine. Tropical Medicine, including the Pathology of Tropical Diseases. First Paper.
Second day...	10—1	Tropical Medicine, including the Pathology of Tropical Diseases. Second Paper.
Third day ...	10—4	Clinical and Oral Examinations.

**M. S. DEGREE EXAMINATION.**

Days	Hours	Subjects
First day ...	{ 10—1 2—5	Surgery. First Paper. Surgery. Second Paper.
Second day...	{ 10—1 2—5	Surgical Anatomy and Pathology. Special Subject.
Third day ...	{ 10—1 2—5	Operative Surgery and the use of instruments. Clinical and Oral Examinations.

**B.S.Sc. DEGREE EXAMINATION.**

**PART I.**

Days	Hours	Subjects	Marks
First day ...	10—1	Chemistry and Physics in relation to Public Health, and Climatology and Meteorology (Written paper)	100
	2—5	Bacteriology (Written paper)	100
Second day...	10—12	Medical Entomology and Parasitology (Written paper)	100
Third day ...	10—2	Chemistry and Physics in relation to Public Health (Practical)	100
	3—5	Chemistry and Physics in relation to Public Health (Oral)	50
Fourth day...	10—1	Bacteriology (Practical)	100
	2—4	Do. (Oral)	50
Fifth day ...	10—1	Medical Entomology and Parasitology (Practical)	100
	2—4	Medical Entomology and Parasitology (Oral)	50
Total			750

## PART II

Days	Hours	Subjects	Marks
First day ...	10—1	Principles and Practice of Public Health including Sanitary Engineering (Written paper) ...	100
	2—5	Epidemiology and Infectious Diseases (Written paper) ...	100
Second day...	10—12	Sanitary Law and Vital Statistics (Written paper) ...	100
	2—5	Principles and Practice of Public Health (Oral) ...	50
Third day ...	7—10	Epidemiology and Infectious Diseases (Practical) ...	50
	10—1	Epidemiology and Infectious Diseases (Oral) ...	50
	2—5	Sanitary Law and Vital Statistics (Oral)...	50
Fourth day..	7—1	Public Health Administration (report on sanitary inspection) ...	150
		Total ...	650

## FIRST EXAMINATION IN ENGINEERING

Days	Hours	Subjects	Marks
First day ..	{ 10—1	Pure Mathematics ...	150
	{ 2—5	Applied Mathematics ...	150
Second day...	{ 10—1	Physics ...	100
	{ 2—5	Chemistry ...	100
Third day ...	{ 10—1	Elementary Applied Mechanics ...	100
	{ 2—5	Geometrical Drawing ...	100
Fourth day...	{ 10—1	Building Drawing ...	100
	{ 2—5	Machine Drawing ...	100
Fifth day ...	...	Practical Surveying ...	100
Total ...			1,000

**B. E. DEGREE EXAMINATION**

**(CIVIL BRANCH)**

Days	Hours	Subjects	Marks
First day ...	10—1	Calculus ... ..	100
	2—5	Applied Mathematics ... ..	100
Second day...	10—1	Applied Mechanics* I ... ..	100
	2—5	Do. II ... ..	100
Third day ...	10—1	Construction I ... ..	100
	2—5	Do. II ... ..	100
Fourth day...	10—1	Hydraulic Engineering I ... ..	100
	2—5	Do. II ... ..	100
Fifth day ...	10—1	Surveying ... ..	100
	2—5	Building Drawing I ... ..	100
Sixth day ...	10—1	Building Drawing II ... ..	100
	2—5	Estimating ... ..	100
Seventh day.	...	Laboratory Test... ..	100
Eighth day...	...	Surveying Field Work ... ..	100
...	...	Engineering Laboratory note-books and viva voce ... ..	100
Total ...			1,500



**B. E. DEGREE EXAMINATION****(MECHANICAL BRANCH)**

Days	Hours	Subjects	Marks	Remarks
First day ...	10--1	Calculus ... ..	100	
	2--5	Applied Mathematics ...	100	
Second day...	10--1	Applied Mechanics, I ...	100	
	2--5	Do. II ... ..	100	
Third day ...	10--1	Mechanics and Mechanical Engineering ...	100	Sub-head (1)
	2--5	Mechanical Engineering ...	100	" " (2)
Fourth day...	10- 1	Mechanical Engineering ...	100	Sub-head (3)
	2--5	Do. ... ..	100	" " (4)
Fifth day ...	10--1	Mechanical Engineering ...	100	Sub-head (6)
	2--5	Electrical Engineering ...	100	
Sixth day ...	10--1	Machine Drawing I ...	100	
	2--5	Do. II ... ..	100	
Seventh day ...	...	Laboratory Test ...	100	
Eighth day ...	...	Workshop Test ...	100	
...	...	Engineering Laboratory note-books and <i>visa voce</i> .	100	
Total ...			1,500	

**ORIENTAL TITLES EXAMINATION**

*Mīmāṃsā, Vedānta, Nyāya, Vyākaraṇa,  
Sāhitya, Jyotiṣa or Ayurveda Siromani.  
Preliminary*

Days	Hours	Subjects	Marks
First day ...	10--1	Prescribed Text books (i) General ...	200
Second day...	10--1	Prescribed Text-books (ii) General ...	200
Third day ...	10--1	Prescribed Text-books—Special (i) ...	150
Fourth day...	10--1	Prescribed Text-books—Special (ii) ...	150
		Total ...	700

*Final*

First day ...	10--1	History of Sanskrit Language and Literature ...	200
Second day...	10--1	Prescribed Text-books—Special (i) ...	200
Third day ..	10--1	Prescribed Text-books—Special (ii) ...	200
Fourth day...	10--1	Prescribed Text-books—Special (iii) ...	200
		Total ...	800

*Vidvān — Preliminary*

*For Parts A and C in Regulation 7 of Chapter XLI*

Days	Hours	Subjects	Marks
First day ...	10--1	Prescribed Vernacular Text-books ...	200
Second day...	10--1	Vernacular Composition ...	200
Third day ...	10--1	Prescribed Sanskrit Text-books (I) ..	150
Fourth day...	10--1	Prescribed Sanskrit Text books (II) ...	150
		Total ...	700

**For Part B in Regulation 7 of Chapter XLI**  
**Preliminary**

Days	Hours	Subjects	Marks
First day ...	{ 10—1 2—5	Prescribed Text-books I ...	175
		Do II ...	175
Second day...	10—1	Composition ...	150
Third day ...	10—1	Sanskrit Text-books and Translation ...	100
Total ...			600

**Vidvān—Final**

**For Parts A and C in Regulation 7 of Chapter XLI**

First day ...	10—1	History of Sanskrit Language and Literature ...	200
Second day..	10—1	Prescribed Sanskrit Text-books ...	200
Third day ...	10—1	Prescribed Vernacular Text-books ...	200
Total ...			600

**For Part B in Regulation 7 of Chapter XLI**  
**Final**

First day ...	{ 10—1 2—5	Prescribed Text-books I ...	175
		Do II ...	175
Second day...	10—1	History of Language and Literature ...	150
Third day ...	10—1	Sanskrit Text-books ...	100
Total ...			600

*For Part D in Regulation 7 of Chapter XLI*  
*Preliminary*

Days	Hours	Subjects	Marks
First day... {	10—1	Prescribed Text-books in Poetry <sup>o</sup> , Prose and relating to Grammar I	150
	2—5	Do II ...	150
Second day...	10—1	Composition ...	150
Third day ...	10—1	History of Tamil Country ...	150
Total ...			600

*For Part D in Regulation 7 of Chapter XLI*  
*Final*

Days	Hours	Subjects	Marks
First day... {	10—1	Prescribed Text-books in Poetry ...	150
	2—5	Prescribed Text-books relating to Advanced Grammar, Prosody and Poetics I	150
Second day {	10—1	Prescribed Text-books relating to Advanced Grammar, Prosody and Poetics II	150
	2—5	History of Language and Literature ...	75
Third day ...	10—1	Inscriptions ...	75
Total ...			600

## CERTIFICATE OF PROFICIENCY

A paper of three hours' duration to be answered on the morning of the day following the final examination for Titles.

*Afzal-ul-Ulama**I. Preliminary*

Days	Hours	Subjects	Marks
First day ...	10—1	Tafsir and Hadīth	100
	2—5	Fiqh, 'Aqā'id and Mantiq	100
Second day...	10—1	Prose Text-books	100
	2—5	Poetry Text books	100
Third day ...	10—1	History	100
	2—5	Translation from Arabic into Urdu and <i>vice versa</i>	100
Total			600

*II. Final*

First day ...	10—1	Tafsir, Hadīth and 'Ilmul-Hadīth	100
	2—5	Fiqh and 'Usul'-ul Fiqh	100
Second *day...	10—1	Prose Text-books	100
	2—5	Poetry Text-books	100
Third day ...	10—1	History	100
	2—5	Translation from Arabic into Urdu and <i>vice versa</i>	100
Fourth day...	10—1	Man'iq and Balāghat	100
	2—5	Composition in Arabic	100
Total			800

*Munshi-i-Fazil**I. Preliminary*

Days	Hours	Subjects	Marks
First day ...	10—1	Persian Text-books ...	100
	2—5	Urdu Text-books ...	100
Second day ...	10—1	Translation from Persian into Urdu ...	100
	2—5	Translation from Urdu into Persian ...	100
Third day ...	10—1	Composition in Persian ...	100
	2—5	Arabic Text-books ...	100
Total ...			600

*II. Final*

First day ...	10—1	Persian Text-books ...	100
	2—5	Urdu Text-books ...	100
Second day...	10—1	Translation from Persian into Urdu ...	100
	2—5	Translation from Urdu into Persian ...	100
Third day ...	10—1	History of Persian Language and Literature ...	100
	2—5	Arabic Text-books ...	100
Fourth day...	10—1	Composition in Persian ...	100
Total ...			700

*Diploma in Economics.*

Days	Hours	Subjects
First day ...	10-1	Economics
	2-4	Statistical Methods.
Second day...	10-1	Recent Economic History and Economic Geography.
	2-5	Rural Economics.
Third day ...	10-1	Social Economics.
	2-5	Special subject.

**Examinations for Diplomas in Modern European Languages.**

*(French and German.)*

Day	Hours	Subjects
First day ...	10-1	Text-books and Grammar.
	2-4	Translation.

## CHAPTER XLIV (Regulations)

## Transfer and Term or Annual Certificates

1. No student who has previously studied in any recognized school or college shall be admitted to a college unless he presents a transfer certificate showing—

- Transfer Certificates.**
- (a) the name of the student in full,
  - (b) the date of birth as entered in the admission register,
  - (c) the dates on which he has admitted to and on which he left the institution,
  - (d) the class in which he studied at the time of leaving it,
  - (e) the subjects or portions thereof studied by him while enrolled,
  - (f) if it be the time when annual promotions take place whether he is qualified for promotion to a higher class,
  - (g) that he has paid all fees or other moneys due to that institution in respect of the last term in which he was enrolled, and a certificate of Medical Inspection, if any, from the school in which he last studied.

No student shall be enrolled pending the production of such certificate. Every such certificate shall be endorsed with the admission number under which the student is enrolled and shall be filed for reference and inspection.

2. A student admitted to a College shall be required to undergo a Medical Inspection within the first term of the first year of the Intermediate Course and a re-inspection during the first term of the Junior B.A. Course. A student proceeding from one College to another shall be required to produce, along with his Transfer Certificate, the Medical Certificate given in the previous College. Before admission to the B.A. Course the student

**Certificates of  
Medical Inspections.**



shall be required to produce his Certificate of Medical Inspection given during the Intermediate Course.

Such medical inspection shall be conducted by a Doctor possessing the University Qualification of L.M. & S., or M.B. & B.S., or a registrable British Qualification.

In a case where a College has difficulty in arranging for Medical Inspection, a report should be made to the Syndicate by the College in question.

3. A student applying for a transfer certificate during a college term on any day of which he has been enrolled, or applying not later than the fifth working day of the college term immediately following shall forthwith be given such certificate upon payment of all fees or other moneys due, or of such portion thereof as the Principal may see fit to demand, for the college term in which he was enrolled.

A student applying for such certificate after the fifth working day of the college term immediately following that during which he has been last enrolled shall forthwith be given it on payment of (1) all fees or other moneys due, or of such portion thereof as the Principal may see fit to demand, in respect of the college term in which he *was* last enrolled, and (2) an additional fee of Rs. 3 at the option of the Principal.

Provided that, when a student has been enrolled at favourable fee rates, he shall be liable for such rates only.

No student shall be considered to have been enrolled in any college term unless he has attended the college and received instruction for at least one day of that college term or has paid the fees or portions thereof prescribed.

In the case of a student who has been a candidate for a University Examination, the results of which have not been published before the beginning of the college term, the eleventh day after the results of that examination have been announced at the Senate House shall be counted for him the first working day of the college term so far as the grant of a transfer certificate is concerned.

In the event of a Principal refusing or delaying to give a transfer certificate to which a student may be entitled the student shall have right of appeal to the Syndicate.

4. If any student is expelled from a constituent or an affiliated college, intimation of the fact of expulsion, with a statement of the reasons therefor, shall be given forthwith by the Principal (a) to the parent or guardian of the student, (b) to the Syndicate; intimation to the Syndicate shall be accompanied by the transfer certificate of the student. The Syndicate, on the application of the student or his parent or guardian, may after making such enquiry as it deems proper deliver the certificate to the student with any necessary endorsement or withhold it temporarily or permanently.

5. The academic year for colleges affiliated in Arts, Teaching and Law shall consist of three terms, which shall ordinarily begin and end as follows:

First term—June to September, closing with the Michaelmas holidays.

Second term—October to December, closing with the Christmas holidays.

Third term—January to April, closing with the Summer holidays.

6. A student shall ordinarily qualify for the annual certificate in one and the same college, but in special cases the Syndicate may allow attendance in different colleges to be combined for the purposes of the annual certificate.

7. A student in the Arts Courses desirous of transfer from one college to another shall apply to the *Syndicate* for permission to combine attendances at the two colleges, for purposes of the annual certificate. Such applications shall be submitted in every case prior to making the desired transfer and shall furnish valid reasons for the change proposed. This rule applies to a transfer during a term as well as to a transfer at the end of an academic year when an additional term is proposed to be kept in a different college. An application to combine attendances shall invariably be accompanied by (1) the written consent to the proposed transfer of the Principal of the College in

which the student is studying and (ii) the written promise of admission from the Principal of the College which he proposes to join, together with an assurance countersigned by the latter Principal that the student, if permitted by the Syndicate to combine attendances, will, in the main, be able to continue in his college the course of study already commenced by the student under each part of the examination.

In the case of a student in Arts who has been permitted to combine attendances in two Colleges, the annual certificates will be accepted as satisfying the Regulations provided the student has kept either

(a) three quarters of the possible attendances in each College before and after his transfer respectively,

or

(b) three quarters of the combined total of possible attendances in the two Colleges taken together.

8. In colleges affiliated in Arts, Teaching and Law the grant of the annual certificate shall be in respect of three terms ordinarily consecutive comprising one year; but it shall be competent for the authorities of an affiliated college to grant such certificate in respect of three terms which are not consecutive, provided that the student has during those terms completed the necessary courses of study for the year.

Conditions of  
grant of annual  
certificate

9. The grant of the annual certificate shall be subject, in addition, to the following conditions:—

(1) In colleges affiliated in Arts, Teaching and Law the certificate shall not be granted unless a student has kept three-fourths of the attendances prescribed by the college in the course of instruction followed by him during the year, and in institutions approved by the Syndicate under the regulations for Oriental Titles and Certificates of Proficiency in Oriental Learning unless he has kept three-fourths of the attendances prescribed by the

institution in the particular course of study for which the certificate is issued.

- (2) In colleges of Science the certificate shall not be granted unless a student has kept three-fourths of the attendances prescribed by the college in the course of instruction followed by him during the year, in colleges in Medicine unless he has attended four-fifths of the lectures in each course and in colleges of Engineering unless he has kept three-fourths of the attendances prescribed by the college.
- (3) The certificate shall not be granted unless the student has completed the course of instruction to the satisfaction of the authorities of his college and his progress and conduct have been satisfactory.

Students for want of Progress Certificate to undergo additional instruction.

10. In the Intermediate or the Pass B.A. Degree Course a student who has failed to earn the progress certificate at the end of the first year's course shall be required to rejoin the first year class for another full year.

A student who has not been selected for the March-April University Examination but who at the close of the academic year is certified by the Principal to have made such satisfactory progress that he may be admitted to examination, may appear for a subsequent examination without further attendance at a college, provided that he has earned the necessary attendance certificate.

A student who has failed to earn the progress certificate for the second academic year must attend college to receive such additional instruction as the Principal may, in his discretion, prescribe so as to enable him to earn the required progress certificate.

The Regulations governing attendance and progress and combination of attendance shall apply *mutatis mutandis* to students in the Faculty of Law.

**Forms of Certificates**

11. The certificates shall be drawn up in the following forms:—

**MATRICULATION EXAMINATION**

*I hereby certify that.....has kept attendance for not less than 120 days of the previous school year before 10th March in.....School.....that he has completed the course of study prescribed for the several classes of a high school, and that his progress and conduct have been satisfactory.*

.....19 .

*Headmaster.*

**INTERMEDIATE EXAMINATION IN ARTS AND SCIENCE  
FIRST YEAR.**

*I certify that.....has kept three-fourths of the attendances prescribed by the.....College.....in the course of instruction followed by him during the year consisting of the following terms:—*

(1).....

(2).....

(3).....

*and that his progress and conduct have been satisfactory.*

.....19 .

*Principal.*

*I certify that.....has attended the course of practical instruction, in*

.....19 .

*Professor or Lecturer.*

*I certify that.....has attended the course of practical instruction, in*

.....19 .

*Professor or Lecturer.*

*I certify that.....has attended the course of practical instruction, in*

.....19 .

*Professor or Lecturer.*

SECOND YEAR.

*I certify that.....has kept three-fourths of the attendances prescribed by the.....College,.....in the course of instruction followed by him during the year consisting of the following terms:—*

- (1).....  
(2).....  
(3).....

*that his conduct and progress have been satisfactory and that he has completed the course of study prescribed for the Intermediate Examination in Arts and Science.*

.....19 .

Principal.

*I certify that.....has satisfactorily completed the course of practical instruction in*

.....19 .

Professor or Lecturer.

*I certify that.....has satisfactorily completed the course of practical instruction in*

.....19 .

Professor or Lecturer.

*I certify that.....has satisfactorily completed the course of practical instruction in*

.....19 .

Professor or Lecturer.

B.A. DEGREE EXAMINATION.

(New Regulations)

(will be printed in the calendar for 1930-31.)

B.A. (HONOURS) DEGREE EXAMINATION.

PRELIMINARY EXAMINATION

*I certify that .....has kept three-fourths of the attendances prescribed by the.....College for the year consisting of the following terms:—1.....2.....3.....in the course of instruction in....., that his progress and conduct have been satisfactory and that he has completed the course of study prescribed for the Preliminary Examination for the B.A. (Honours) Degree.*

.....19 .

Principal.

## FINAL EXAMINATION

*I certify that.....has kept three-fourths of the attendances prescribed by the.....College for the year consisting of the following terms:—1.....2.....3.....in the course of instruction in.....and that his progress and conduct have been satisfactory.*

.....19 .

*Principal.*

*I certify that.....has kept three-fourths of the attendances prescribed by the.....College for the year consisting of the following terms:—1.....2.....3.....in the course of instruction in.....and that his progress and conduct have been satisfactory.*

.....19 .

*Principal.*

*I certify that.....has kept three-fourths of the attendances prescribed by the.....College for the year consisting of the following terms:—1.....2.....3.....in the course of instruction in....., that his progress and conduct have been satisfactory, and that he has completed the courses of study prescribed for the B.A. (Honours) Degree Examination.*

.....19 .

*Principal.*

*I certify that.....has attended and has satisfactorily completed the course of instruction in Ethics required of candidates selecting Psychology in the B.A. (Honours) Degree Examination, at the.....during the year.....*

.....19 .

*Professor or Lecturer.*

## B.Sc. DEGREE EXAMINATION.

*I certify that.....has kept three-fourths of the attendances prescribed by the.....College.....in the course of instruction in English during the year.....and that his conduct and progress have been satisfactory.*

*(Signature)*

.....19 ,

*Principal.*

*I certify that .....has kept three-fourths of the attendances prescribed by the.....College.....in the course of instruction in.....during the year.....and that his conduct and progress have been satisfactory.*

*(Signature)*

.....19 .

**Principal.**

*I certify that .....has kept three-fourths of the attendances prescribed by the.....College.....in the course of instruction in.....during the year.....that his progress and conduct have been satisfactory and that he has completed the course of study prescribed for the B.Sc. Degree Examination.*

*(Signature)*

.....19 .

**Principal.**

*\*I certify that.....has attended the course of practical instruction in.....for the B.Sc. Degree Examination of the.....during the year.....*

*(Signature)*

(1).....

(2).....

(3).....

.....19 .

**Professor or Lecturer.**

*\*I certify that.....has attended the course of practical instruction in.....for the B.Sc. Degree Examination at the.....during the year.....and that he has satisfactorily completed the course.*

*(Signature)*

(1).....

(2).....

(3).....

**Professor or Lecturer.**

\* These will not be required in the case of Mathematics.



## CERTIFICATE OF ADDITIONAL STUDY

*I certify that.....subsequently to his appearance in the year.....for Part II of the B.Sc. Degree Examination, has kept three-fourths of the attendances prescribed by the,.....in the course of additional instruction in.....during the year.....and that his progress and conduct have been satisfactory.*

*(Signature)*

.....19 .

*Principal.*

## B.Sc. (HONOURS) DEGREE EXAMINATION.

## PRELIMINARY EXAMINATION (IN ENGLISH)

*I certify that .....has kept three-fourths of the attendances prescribed by the.....College.....in the course of instruction in English, during the year.....that his progress and conduct have been satisfactory and that he has completed the course of study prescribed for the Preliminary Examination in English for the B.Sc. (Honours) Degree.*

*(Signature)*

.....19 .

*Principal.*

## PART II OF THE EXAMINATION

*I certify that.....has kept three-fourths of the attendances prescribed by the.....College.....in the course of instruction in .....during the year.....and that his progress and conduct have been satisfactory.*

*(Signature)*

.....19 .

*Principal.*

*I certify that.....has kept three-fourths of the attendances prescribed by the.....College.....in the course of instruction in.....during the year.....and that his progress and conduct have been satisfactory.*

*(Signature)*

.....19 .

*Principal.*

*I certify that .....has kept three-fourths of the attendances prescribed by the.....College.....in the course of instruction in.....that his progress and conduct have been satisfactory and that he has completed the course of study prescribed for the B.Sc. (Honours) Degree Examination.*

*(Signature)*

.....19 .

*Principal,*

*\*I certify that.....has attended the course of practical instruction in.....for the B.Sc. (Honours) Degree Examination at the.....during the year.....*

*(Signature)*

*Professor or Lecturer.*

*\*I certify that.....has attended the course of practical instruction in.....for the B.Sc. (Honours) Degree Examination at the.....during the year.....*

*(Signature)*

*Professor or Lecturer.*

*\*I certify that.....has attended the course of practical instruction in... ..for the B.Sc. (Honours) Degree Examination at the.....during the year.....and that he has satisfactorily completed the course.*

*(Signature)*

*Professor or Lecturer.*

**CERTIFICATES REQUIRED UNDER REGULATION 23 (i) (a) AND (b)  
OF CHAPTER XXXV**

*Same as for the second and third years of the B.Sc. (Honours),  
Degree courses.*

**CERTIFICATES REQUIRED UNDER REGULATION 23 (i) (c)  
OF CHAPTER XXXV**

*Same as for the second year of the B.Sc. Degree courses.*

**CERTIFICATES REQUIRED UNDER REGULATION 23 (i) (d)  
OF CHAPTER XXXV**

*Same as for the B.Sc. Degree courses.*

**CERTIFICATES REQUIRED UNDER REGULATION 23 (ii)  
OF CHAPTER XXXV**

*Same as for the second and third years of the B.A. (Honours),  
Degree courses.*

*\*These will not be required in the case of Mathematics.*

**B.Sc. Ag. DEGREE EXAMINATION.**

*I certify that .....has kept three-fourths of the attendances prescribed by the.....College.....in the courses of instruction in Agriculture during the year..... and that his conduct and progress have been satisfactory.*

*(Signature)*

.....19 .

*Principal.*

*I certify that .....has kept three-fourths of the attendances prescribed by the.....College.....in the courses of instruction in Agriculture during the year..... that his conduct progress have been satisfactory, and that he has completed the courses of study prescribed for Part I of the examination for the Degree of Bachelor of Science in Agriculture.*

*(Signature)*

.....19 .

*Principal.*

*I certify that .....has kept three-fourths of the attendances prescribed by the.....College.....in the courses of instruction in Agriculture during the year..... that his conduct and progress have been satisfactory, and that he has completed the courses of study prescribed for Part II of the examination for the Degree of Bachelor of Science in Agriculture.*

*(Signature)*

.....10 .

*Principal.*

**CERTIFICATE OF ADDITIONAL STUDY**

*I certify that.....subsequently to his appearance in the year.....for  $\frac{\text{Part I}}{\text{Part II}}$  of the examination for the Degree of Bachelor of Science in Agriculture, has kept three-fourths of the attendances prescribed by the.....College.....the course of additional instruction in.....during the year and that his conduct and progress have been satisfactory.*

*(Signature)*

.....10 .

*Principal.*

**L.T. DEGREE EXAMINATION.**

*I certify that.....has kept three-fourths of the attendances prescribed by the.....College.....in the course of instruction and practical training in teaching during the year consisting of the following terms:—1.....2.....3.....that he has completed the course prescribed for the L.T. Degree, and that his conduct and progress have been satisfactory.*

*(Signature)*

.....19 .

*Principal.*

**FIRST EXAMINATION IN LAW.**

*I certify that.....after passing the.....Degree Examination has kept three-fourths of the attendances prescribed by the Law College during the year consisting of the following terms:—1.....2.....3.....that he has completed a course of study in each of the subjects prescribed for the First Examination in Law, and that his progress and conduct have been satisfactory.*

*(Signature)*

.....19 .

*Principal.*

**B.L. DEGREE EXAMINATION.**

*I certify that.....after completing and receiving the certificate for the course of study prescribed for the First Examination in Law, has kept three-fourths of the attendances prescribed by the Law College during the year consisting of the following terms:—1.....2.....3.....that he has completed a course of study in each of the subjects prescribed for the B.L. Degree Examination, and that his progress and conduct have been satisfactory.*

*(Signature)*

.....19 .

*Principal.*

**PRE-REGISTRATION EXAMINATION.**

*I certify that.....has undergone the prescribed course of study extending over a period of six months, subsequent to his passing the Intermediate Examination, and that his progress and conduct have been satisfactory.*

*(Signature)*

*Principal,*

*College.*

*I certify that.....has attended a course of lectures on Inorganic Chemistry and a course of instruction in Practical Chemistry.*

*(Signature)*

*Professor of Chemistry.*

*I certify that.....has attended a course of Experimental Physics, including Practical Physics.*

*(Signature)*

*Professor of Physics.*

*I certify that.....has attended a course of Biology, Theoretical and Practical.*

*(Signature)*

*Professor of Biology.*

#### ADDITIONAL CERTIFICATE AFTER ONE TERM'S STUDY.

*I certify that.....has been re-engaged in the prescribed course of studies for the Pre-Registration Examination for a period of one term subsequent to his appearance at that examination in\*.....when he was referred to his studies by the Examiners, and that his progress and conduct have been satisfactory.*

*Signed.....*

*Principal, College.*

*Dated.....*

#### FIRST M.B. & B.S. EXAMINATION.

##### PART I

*I certify that to the best of my knowledge and belief..... completed the age of seventeen years on or before the date of admission to the Medical College..... that he has been engaged in medical studies at the Medical College,..... for not less than one academic year subsequent to his passing the Pre-Registration Examination, and that his progress and conduct have been satisfactory.*

*Dated.....*

*(Signature)*

*Principal, Medical College.*

\*The date of the examination must be entered here.

*I certify that.....has attended a course of lectures on Organic Chemistry, and a course of instruction in Practical Organic Chemistry.*

*Date.....*

*(Signature)*

*Professor of Chemistry.*

#### PART II

*I certify that.....has been engaged in medical studies at the.....for not less than two academic years subsequent to his passing the Pre-Registration Examination and that his progress and conduct have been satisfactory.*

*(Signature)*

*Date.....*

*Principal of College of Medicine.*

*I certify that.....has attended a course of instruction in Anatomy including Elements of Human Embryology, Theoretical and Practical.*

*(Signature)*

*Date.....*

*Professor of Anatomy.*

*I certify that.....has dissected for twelve months during the regular sessions and has completed the dissections of the human body.*

*(Signature)*

*Professor of Anatomy.*

*I certify that.....has attended a course of lectures on Physiology, and a course of instruction in Practical Physiology including History.*

*(Signature)*

*Professor of Physiology.*

*I certify that.....has attended a course of lectures on Bio-Chemistry and a course of instruction in Practical Chemical Physiology and Bio-Chemistry.*

*(Signature)*

*Professor of Bio-Chemistry.*

*I certify that.....has attended a course of lectures on Pharmacology and a course of instruction in Practical Pharmacy.*

*(Signature)*

*Professor of Pharmacology,*

#### ADDITIONAL CERTIFICATE AFTER SIX MONTHS' STUDY

*I certify that.....has been re-engaged in Medical Studies for..... Examination for a period of six months subsequent to his appearance at that examination in\*.....when he was referred to his studies by the Examiners, and that his progress and conduct have been satisfactory.*

*(Signed)*

*Dated.....*

*Principal, Madras Medical College.*

#### SECOND M.B. & B.S. EXAMINATION.

*I certify that.....has been engaged in medical studies at the.....for not less than two years after passing the First M.B. & B.S. Examination, and that his progress and conduct have been satisfactory.*

*(Signature)*

*Principal of College of Medicine.*

*I certify that.....has attended a course of lectures on General Pathology and Bacteriology.*

*(Signature)*

*Professor of Pathology.*

*I certify that.....has attended a course of instruction in Practical Pathology including Bacteriology.*

*(Signature)*

*Professor of Pathology.*

*I certify that.....has attended a course of lectures on Hygiene and a course of instruction in Practical Hygiene.*

*(Signature)*

*Professor of Hygiene.*

*I certify that.....has been engaged in post-mortem-room-clerking for a period of three months.*

*(Signature)*

*Professor of Pathology.*

\*The date of the examination must be entered here,

*I certify that.....has attended (1) a course of instruction in Ophthalmology extending over a period of two terms and (2) an Ophthalmic hospital or the Ophthalmic wards of a General Hospital on three days in the week for a period of three months.*

*Dated.....19 .*

*(Signature)*

*Professor of Ophthalmology.*

#### ADDITIONAL CERTIFICATE AFTER SIX MONTHS' STUDY.

*I certify that.....has been re-engaged in Medical Studies for.....Examination for a period of six months subsequent to his appearance at that examination in\* ..... when he was referred to his studies by the Examiners, and that his progress and conduct have been satisfactory.*

*(signed)*

*Dated.....*

*Principal, Madras Medical College.*

#### FINAL M.B. & B.S. DEGREE EXAMINATION.

##### PART I

*I certify that.....has been engaged in medical studies at the Medical College.....for not less than two years after passing the First M. B. and B. S. Examination and that his progress and conduct have been satisfactory.*

*Dated.....19 .*

*(Signature)*

*Principal, Medical College.*

*I certify that.....has attended a course of instruction in Forensic Medicine including demonstrations for a period of two terms.*

*Dated.....19 .*

*(Signature)*

*Professor of Forensic Medicine.*

##### PART II

*I certify that.....has been engaged in medical studies at the Medical College.....for not less than three academic years after passing the first M.B. & B.S. Examination (subject to his having passed the second M.B. & B.S. Examination at least six months previously), and that his progress and conduct have been satisfactory.*

*Dated.....19 .*

*(Signature)*

*Principal, Medical College.*

*I certify that.....has attended a course of instruction in Medicine including Therapeutics.*

*Dated.....19 .*

*(Signature)*

*Professor of Medicine.*

\* The date of the examination must be entered here.



*I certify that.....has been engaged as clinical clerk in the Medical wards of a recognized hospital for a period of six months.*

*Dated.....19 .*

*(Signature)*

*Physician,*

*.....Hospital.*

*I certify that..... has been engaged as clinical clerk in the Medical Out-patients Department of a recognized hospital for a period of three months.*

*Dated.....19 .*

*(Signature)*

*Medical Officer,*

*.....Hospital.*

*I certify that.....has attended a recognized course of instruction in Infectious Diseases.*

*Dated.....19 .*

*(Signature)*

*Professor of Medicine.*

*I certify that .....has attended as clinical clerk in a recognized hospital for Infectious Diseases in two days in the week for a period of three months.*

*Dated.....19 .*

*(Signature)*

*Medical Officer,*

*Hospital for Infectious Diseases.*

*I certify that.....has attended a recognized course of instruction in Mental Diseases.*

*Dated.....19 .*

*(Signature)*

*Professor of Mental Diseases.*

*I certify that.....has attended as clinical clerk in a recognized Mental Hospital on one day in the week for a period of three months.*

*Dated.....19 .*

*(Signature)*

*Superintendent,*

*Hospital for Mental Diseases.*

*I certify that.....has attended a recognized course of instruction in Tuberculosis.*

*Dated.....19 .*

*(Signature)*

*Professor of Medicine.*

*I certify that.....has attended as clinical clerk in a Tuberculosis Hospital on one day in the week for a period of three months.*

*Dated.....19 .*

*(Signature)*

*Medical Officer,*

*Tuberculosis Hospital.*

*I certify that.....has attended a recognized course of instruction in Dermatology.*

*Dated.....19 .*

*(Signature)*

*Professor.*

*I certify that.....has attended the special departments relating to skin diseases on two days in the week for a period of three months*

*Dated.....19 .*

*(Signature)*

*Medical Officer,.....Hospital.*

*I certify that.....has attended a recognized course of instruction in Vaccination by a qualified Health Officer.*

*Dated.....19 .*

*(Signature)*

*Health Officer.*

*I certify that.....has attended a recognized course of instruction in Children's Diseases.*

*Dated.....19 .*

*(Signature)*

*Professor.*

*I certify that.....has attended a course of instruction in Surgery.*

*Dated.....19 . .*

*(Signature)*

*Professor of Surgery.*

*I certify that.....has been engaged as surgical dresser in the surgical wards of a recognized hospital for a period of six months.*

*Dated.....19 . (Signature)*

*Surgeon,.....Hospital.*

*I certify that.....has been engaged as surgical dresser in the Out-patients Department of a recognized hospital.*

*Dated.....19 . (Signature)*

*Surgeon,.....Hospital.*

*I certify that.....has attended (1) a recognized course of instruction in Oto-Rhine-Laryngology and (2) a recognized clinic as clinical clerk on three days in the week for a period of three months.*

*Dated.....19 . (Signature)*

*Professor.*

*I certify that.....has attended a recognized course of instruction in Orthopedics on two days in the week for a period of three months.*

*Dated.....19 . (Signature)*

*Professor.*

*I certify that.....has attended of practical instruction in the administration of anaesthetics and has personally administered a general anaesthetic in at least six cases.*

*Dated.....19 . (Signature)*

*Surgeon-in-Charge.*

*I certify that.....has attended a recognized course of instruction in Operative Surgery.*

*Dated.....19 . (Signature.)*

*Professor of Operative Surgery.*

*I certify that.....has attended (1) a recognized course of instruction in Radiology and (2) an X-Ray Institute on three days in the week for a period of one month.*

*Dated.....19 . (Signature)*

*Radiologist.*

*I certify that.....has attended (1) a recognized course of instruction in Venereal diseases and (2) a Venereal clinic for two days in the week for a period of three months.*

*Dated.....19 .*

*(Signature)*

*Professor.*

*I certify that before commencing the study of Practical Midwifery.....has attended a course of lectures on Medicine, Surgery, and Midwifery and diseases to women and new born child.*

*Dated.....19 .*

*(Signature)*

*Professor of Obstetrics and Gynaecology.*

*I certify that.....has been engaged as clinical clerk at an antenatal clinic and the Maternity wards of a lying-in-hospital for a period of three months, that he has conducted twenty cases of labour under my supervision (of which not less than five cases were conducted in my presence) and that under my supervision he attended the cases during the puerperal period*

*Dated.....19 .*

*(Signature)*

*Member of the Staff of a Lying-in-Hospital or of a Maternity Charity recognized by the University of Madras.*

*I certify that.....has been engaged as clinical clerk in the Gynaecologic wards and Out-patient Department of a recognized hospitals for a period of three months.*

*Dated.....19 .*

*(Signature)*

*Medical Officer,.....Hospital.*

### DIPLOMA IN MIDWIFERY.

*I certify that.....has served as a House Surgeon in.....for a period of six months, and that <sup>he</sup> <sub>she</sub> has personally conducted not less than six Obstetric operations during that period.*

*Dated.....19 .*

*(Signature)*

*Superintendent,*

*.....Hospital.*

*I certify that.....has attended a course of lectures and clinical demonstrations on Midwifery and Gynaecology for a period of six months.*

*Dated.....19 ..*

*(Signature)*

*Superintendent,*

*Government Hospital for Women and Children,*

*Madras.*

**Additional Certificate of Attendance.**

*I certify that.....has attended a course of lectures and clinical demonstrations on Midwifery and Gynaecology for a period of three months.*

*Dated.....19 .*

*(Signature)*

*Superintendent,*

*Government Hospital for Women and Children.*

*Madras.*

**B.S.Sc. DEGREE EXAMINATION.**

**FOR THE EXAMINATION IN PART I.**

*I certify that, subsequent to his having obtained a registrable medical qualification recognised by the University Mr.....  
.....has regularly attended the courses of instruction in the subjects shown below and that he has performed the work thereof in a satisfactory manner:*

- (i). Chemistry and Physics in relation to Public Health, including Laboratory work (180 hours).*
- (ii) Bacteriology, including laboratory work (220 hours).*
- (iii) Medical Entomology and Parasitology, including laboratory work, and entomological surveys (90 hours).*
- (iv) Climatology and Meteorology (10 hours).*

**MADRAS**

*Professor of Hygiene, Medical  
College.*

*Countersigned.*

*Principal, Medical College, Madras.*

**PART II.**

*I certify that, subsequent to his having obtained a registrable medical qualification recognised by the University Mr.....  
.....has regularly attended the courses of instruction in the subjects shown below, that he has performed the work thereof in a satisfactory manner, that he has passed the Examination in Part I for the B.S.Sc. Degree, and that two years have elapsed since he obtained a registrable medical qualification recognised by the University:—*

- (i) *Principle of Public Health (50 hours).*
- (ii) *Epidemiology and Vital Statistics (20 hours).*
- (iii) *Sanitary Law and Administration (20 hours).*
- (iv) *Sanitary Construction and Planning (30 hours).*
- (v) *Vaccination (30 hours).*
- (vi) *Tuberculosis (30 hours).*
- (vii) *Venereal Diseases (10 hours).*
- (viii) *Attendance on the practice of a Hospital for Infectious Diseases (60 hours).*
- (ix) *Instruction in Public Health Administration under the Medical Officer of Health of the City of Madras (180 hours).*

.....  
MADRAS.

.....  
*Professor of Hygiene, Medical College.*

*Countersigned.*

.....  
*Principal, Medical College, Madras.*

**FIRST EXAMINATION IN ENGINEERING.**

*I certify that.....has studied for a period of not less than two years in the.....College of Engineering since passing the Intermediate Examination in Arts and Science of the.....University, that he has completed the course of study prescribed for the First Examination in Engineering to the satisfaction of the authorities of the College, and that his progress and conduct have been satisfactory.*

*(Signature)*

*Principal.*

**B.E. DEGREE EXAMINATION.**

*I certify that.....has studied for a period of not less than four years in the.....College of Engineering, that he has completed the course of study prescribed for the Civil Engineering  
Mechanical Engineering  
Branch of the B.E. Degree Examination to the satisfaction of the authorities of the college, and that his progress and conduct have been satisfactory.*

*(Signature)*

*Principal.*

**ORIENTAL TITLE EXAMINATION.****PRELIMINARY**

*I hereby certify that, after passing the admission test mentioned in Regulation 11 of Chapter XLI.....has kept three-fourths of the attendances prescribed by.....(name of institution) during the first two years of the course, that he has received adequate instruction in.....and that his progress and conduct have been satisfactory.*

**STATION**

*Dated.....*

*Principal.*

**FINAL**

*I hereby certify that after completing the course of instruction prescribed for the preliminary part of the Oriental Title Examination.....has kept three-fourths of the attendances prescribed by.....(name of institution) for a further period of two years, that he has received adequate instruction in.....and that his conduct and progress have been satisfactory.*

**STATION**

*Dated.....*

*Principal.*

**EXAMINATION FOR CERTIFICATES OF PROFICIENCY IN  
ORIENTAL LEARNING**

*I hereby certify that after passing the Preliminary Examination for a Title.....has kept three-fourths of the attendances prescribed by.....(name of institution) for a period of two years, that he has received adequate instruction in.....that he has completed the course prescribed, and that his conduct and progress have been satisfactory.*

**STATION**

*Dated.....*

*Principal.*

## EXAMINATION FOR THE DIPLOMA IN ECONOMICS

*I certify that                      has, during the year (s).....attended not less than three-fourths of the courses of lectures and classes arranged for the benefit of candidates for the Diploma in Economics that he has under my supervision systematically followed the course of study prescribed; and that his conduct and progress have been satisfactory.*

*(Signature)*

*Professor of Indian Economics.*

## EXAMINATIONS FOR DIPLOMAS IN MODERN EUROPEAN LANGUAGES

## FRENCH AND GERMAN.

*I certify that.....has, during the year.....attended not less than three-fourths of the courses of lectures and classes arranged for the benefit of candidates for the diploma in*  
*French*  
*German* ; *that he has, under my supervision systematically followed the course of study prescribed; and that his conduct and progress have been satisfactory.*

*Signature.....*

*Lecturer in* *French*  
*German.*

## CHAPTER XLV.

## Transitory Regulations

1. (i) Candidates for the Degree of Bachelor of Arts who have passed at least one of the divisions of the B.A. Degree Examination under the Old By-laws may, on the recommendation of the Syndicate be permitted to appear for the B.A. Degree Examination under the New Regulations in the Parts or Groups corresponding to the divisions of the B.A. Degree Examination under the Old By-laws which they have not passed. Orders of exemption granted under this regulation shall be permanent.

(ii) For the purposes of the foregoing regulation the following three papers in each of the sub-division of Group (vi) (Languages other than English) shall be taken as the equivalent of Division II under the Old By-laws:—*Sanskrit*—Books of the Later Period (first paper), Books of the Later Period (second paper), History of Sanskrit



Literature; *Urdu*—Prose Books, Poetry, Composition; *Arabic or Persian*—Prose Books, Poetry, Translation; a *Dravidian Language* or *Oriya* or *Marathi*—Set Books and History of Literature, Composition; *Greek or Latin*—Set Books and History of Literature, Set Books and History of Literature Prose Composition; *French or German*—Set Books and History of Literature, Set Books and History of Literature, Composition; *Hebrew*—Set Books, Set Books, translation. Candidates failing to obtain one-third of the marks in these papers taken together shall not pass.

(iii) Applications for admission to the examination, together with the necessary exemption orders or applications for exemption must be submitted by the date specified for the submission of applications by candidates for the B.A. Degree Examination under the New Regulations.

(iv) The fee for admission to the examination in both parts shall be Rs. 40: in either Part I or Part II (except in Group (vi)) Rs. 25: and in Part II, Group (vi) Rs. 20.

2. A student who has qualified for the four term certificates required to be produced by candidates for the First Examination in Arts under the existing by-laws and regulations shall be allowed to appear for the Intermediate Examination under the new regulations on the production of a certificate or certificates of having attended an additional year in an affiliated college provided he offers for the examination the following optional groups:—i (a) Mathematics, (b) Physics, (c) Chemistry, or ii (a) Natural Science, (b) Physics, (c) Chemistry. In case he offers any three of the subjects of Groups iii, the production of a certificate or certificates of having attended an additional year shall not be required.

**Transitory Regulations governing Examinations for Medical Degrees**

3. (i) Candidates for the M.B. & B.S. degree who have completed the course of study for the Second M.B. & C.M., Degree Examination shall be permitted:

(1) if they passed the Second M.B. & C.M. Degree Examination, to proceed with their studies for the degree.

(2) if they have not appeared at or have failed to pass the Second M.B. & C.M. Degree Examination, to appear for the Second M.B. & B.S. Degree Examination without the production of further certificates and to be examined in all subjects prescribed for the examination other than *Materia Medica*, and in the event of passing the examination therein to proceed with their studies for the degree;

provided that no such candidates shall be considered qualified for the M.B. & B.S. degree unless they produce the certificates required by the regulations of having completed at some time during their course in a college of medicine affiliated to the University the necessary course of study in *Materia Medica* and pass the examination held in this subject according to the regulations for the M.B. & B.S. degree

(ii) The revised Regulations for the M.B. & B.S. and the L.M. & S. degree sanctioned in G. O. No. 668, Home (Education), dated May 27, 1918, shall have retrospective effect—

(a) for the benefit of candidates for a degree in Medicine who, during the year 1917-18, were engaged in the study of Medicine in a college affiliated to this University;

and

(b) until and including the examination held in April, 1924, for the benefit of candidates who have taken or have qualified for the Degree of Licentiate in Medicine and Surgery and who passed the Third M.B. & B.S. or the Third M.B. & C.M. Degree Examination under preceding Regulations.

They shall be exempted as candidates for the M.B. & B.S. degree from re-examination in any subject or subjects in which they have at any time gained total marks

qualifying for such exemptions under the revised Regulations.

(iii) A Licentiate in Medicine and Surgery who graduated under the Regulations prior to April, 1914, shall be permitted to appear for the M.D. or M.S. Degree Examination subject to the following provisions:—

(1) that the candidate produces satisfactory evidence of having been regularly engaged in the practice of Medicine for a period of not less than seven years subsequent to obtaining the L.M. & S. degree;

(2) that the candidate produces satisfactory evidence of having taken an approved course or courses or of having held a Medical or Surgical appointment at one or more of the hospitals attached to a College of Medicine affiliated to this University, for a period of not less than one year immediately preceding the date on which he applies to be admitted to the examination for the M.D. or M.S. degree.

(3) that the candidate produces testimonials from two Doctors of Medicine, or two Masters of Surgery or two Fellows of the University, certifying that he is in habits and character a fit and proper person to receive the degree;

(4) that the candidate produces a certificate signed by the President of the Faculty of Medicine and by the Medical Officer in charge of the Hospital in which he has taken the course at which he has held an appointment as approved in para 2 above, that the work in which he has been specially engaged in the said hospital is a suitable preparation for the particular branch or subjects of the M.D. or M.S. Degree Examination respectively for which he selects to appear.

(iv) The Second paragraphs of Regulations 12 and 18 of Chapter XXVII of Vol. I of the Calendar for 1921, which were rescinded at the special meeting of the Senate held on 21st January 1921, shall remain in force for the benefit of candidates for a Degree in Medicine who previous to the year 1921-22 were engaged in the study of medicine in a college affiliated to this University, but had

not completely passed the First and Second M.B. & B.S. or L.M. & S. Examinations.

(v) The Regulations printed in Volume I of the Calendar for 1924 relating to the courses of study and examinations for the M.B. & B.S. Degree or L.M. & S. Degree shall remain in force for the benefit of candidates who will have entered upon their courses of study prior to July 1926 subject to such alterations in the curricula of studies as may be made and prescribed from time to time.

(vi) Candidates, who appear for the 2nd M.B. & B.S., or the L.M. & S. Examination in April 1927 for the first time, may be permitted to take Anatomy, Physiology and Organic Chemistry in April 1927, and Materia Medica in April 1928 or a subsequent year at the 3rd M.B. Examination. They may be declared to have passed:—

- (1) in the three subjects under the 2nd M.B. & B.S., or L.M. & S. Examination, if they obtain marks as follows:—

*Anatomy, Physiology, and Organic Chemistry in April 1927*

Anatomy		Physiology		Organic Chemistry	Total
Written	Practical and Oral	Written	Practical and Oral		
100	100	100	100	100	500
50 for M.B.	50 for M.B.	50 for M.B.	50 for M.B.	... M.B. or L.M. & S. 53	250 for M.B.
40 for L.M. & S.	40 for L.M. & S.	40 for L.M. & S.	40 for L.M. & S.		200 for L.M. & S.

- (2) in Materia Medica under the 2nd M.B. & B.S., or the L.M. & S. Examination and the two subjects under the 3rd M.B. & B.S., or the

L.M. & S. Examination, if they obtain marks as follows:—

**Materia Medica, Pathology and Bacteriology and Hygiene  
in April 1928**

Materia Medica	Pathology and Bacteriology		Hygiene		Total
	Written	Practical and Oral	Written	Practical and Oral	
100	100	100	100	50	450
M.B. or L.M. & S. 33	50 for M.B.  33 for L.M. & S.	50 for M.B.  33 for L.M. & S.	50 for M.B.  33 for L.M. & S.	25 for M.B.  17 for L.M. & S.	225 for M.B.  180 for L.M. & S.

(vii) Candidates for the M.B. & B.S. Degree who obtain the L.M. & S. Degree shall be admitted to Part II of the Final M.B & B.S. Degree Examination without the production of an additional certificate of attendance.

(viii) A candidate for the Final Examination in Medicine who obtains not less than 40 per cent. of the marks in (1) Ophthalmology and (2) Medical Jurisprudence, and not less than 40 per cent. in the written part of each of the remaining subjects, and not less than 40 per cent. in clinical and oral Medicine taken together and not less than 40 per cent. in each of the following (a) Clinical Surgery, (b) Operative and Oral Surgery taken together, and (c) Practical and Oral Midwifery taken together, shall be declared to have qualified for the L.M. & S. Degree.

Candidates who fail, but obtain passing mark for the L.M. & S. Degree in all the parts of any particular subject shall be exempted from re-examination in that subject.

A candidate for the Final M.B. & B.S., Degree Examination shall be declared to have passed the Examination if he obtains not less than one half of the marks in (1) Ophthalmology and (2) Medical Jurisprudence, and not less than one half of the marks in the written part of each of the remaining subjects, not less than one half of the marks in clinical and oral medicine taken together and not less than one half of the marks in each of the following:—

- (a) Clinical Surgery.
- (b) Operative and Oral Surgery taken together.
- (c) Clinical, Practical and Oral Midwifery taken together.

4. Candidates for degrees at the Convocation held on November 23, 1916, who were prevented from attendance thereat by the conditions of weather then prevailing, may, with the permission of the Syndicate, and without payment of the fee of rupees twenty-five prescribed by Regulation 68 (Calendar, 1918), be admitted to their several degrees *in absentia* at any subsequent Convocation: such candidates for degrees may also with the further permission of the Syndicate and notwithstanding any provisions to the contrary in the regulations, appear for any examination open to graduates of the University for which they are otherwise qualified, as if they had actually received their diplomas and had been admitted to their degrees in Convocation.

5. In the case of B.A. (Honours) students, who have enlisted in the Indian Defence Force, the period of time within which they shall appear for the Final Examination in Honours shall be extended to the end of the *fifth* year after passing the Intermediate Examination.

Candidates  
prevented from  
attendance at  
Convocation of  
1916 by cyclone

B. A. (Hons.)  
students enlisted  
in I. D. F.

6. Regulation 210-B (Calendar for 1918) shall remain in force, for the benefit of candidates desiring to qualify for the M.A. Degree in Physical or Natural Science, up to and including the year in which the first examination is held for the Degree of Bachelor of Science (Honours) in those Sciences.

**Old Regulation 210 (Calendar 1918) to remain in force until the first examination for B.Sc. (Hons.)**

6-A. A candidate who has already qualified for the Degree of Bachelor of Arts (Honours) in Branch ii-A (Physics), or ii-B (Chemistry), or in any one of the subjects of Branch iii (Natural Sciences) as the main subject, may further qualify for that degree in an additional allied Science Branch as the main subject.

**B. A. (Hons) in Sc. Branches permitted to study in an additional Sc. Branch :**

A candidate desirous of coming under the provisions of the above regulation shall submit his laboratory note-book containing the record of his practical work performed during the period of study for the Examination (duly certified by his Professor) as a *bona fide record* of work done by him. The laboratory note-book shall be submitted on the first day of the Practical Examination to the Examiners engaged in conducting the Examination.

He shall be exempted from examination in the subsidiary subject, provided it was the main subject in which he previously qualified for the Honours Degree.

A candidate coming under the provisions of this Regulation shall be declared to have passed the examination if he has obtained not less than 40 per cent. of the total marks and 30 per cent. of the marks in each division of the examination. The Divisions shall be as follows:—

- (a) Written examination in the Main subject.
- (b) Practical examination and laboratory note-books in the Main subject.

A Candidate who has been awarded the B.A. Degree on the results of the B.A. (Honours) Degree Exa-

mination, shall be permitted to appear for the M.A. Degree Examination in the same subject in any subsequent year without the production of further certificates of attendance.

He shall also be exempted from examination in the subsidiary subject provided he has obtained not less than 30 per cent. of the marks in that subject in the Honours Examination.

- B.A.'s to qualify for Honours under Transitory Regulations**
7. A candidate for the B.A. (Hons.) Degree who has passed the B.A. Degree Examination shall be permitted to appear for the B.A. (Hons.) Degree Examination after a two years' course, provided he has passed the B.A. Degree Examination in the subjects for which he desires to appear.

Each such candidate shall forward so as to reach the Registrar before the 20th March preceding the Examination, certificates, in the form hereinafter prescribed, from the head of an affiliated college to the effect that he has attended an affiliated college for a period of at least two years after passing the B.A. Degree Examination, that he has completed the course of instruction in the subject in which he proposes to appear and that his conduct and progress have been satisfactory. He shall be exempted from passing the preliminary examination and if he appears for the examination in Branch (ii) or (iii), he shall be exempted from examination in the subsidiary subject, and shall be credited with the percentage of marks which he obtained in that subject in the B.A. Degree Examination.

- B.A.'s qualified for M.A. Degree under Old Regn. 210-B**
8. A graduate in Arts who has qualified for the M.A. Degree under former Regulation 210-B, I (Calendar, 1918), in Branches of the B.A. (Honours) Degree Examination, may, after a lapse of five years from the date of his having passed the Intermediate Examination, proceed without further examination to the Degree of Master of Arts on payment of a fee of Rs. 25.



9. The examination for the Degree of Bachelor of Arts (Honours) in Branches ii and iii under the regulations previously in force (Calendar for 1918) shall be held under those regulations up to and including the year in which the first examination is held for the Degree of Bachelor of Science (Honours) in the corresponding Branches ii to vi.

10. A candidate for the B.A. (Honours) Degree Examination in Mathematics may present for the examination as his special subjects any two subjects out of the list of subjects mentioned in the B.A. (Honours) Regulations and the similar list of subjects mentioned in the B.Sc. (Honours) Regulations, up to and including the year in which the first examination in Mathematics under B.Sc. (Honours) Regulations takes place.

11. (i) From 1919 every year in the month of April, there shall be an examination for Titles in Oriental Learning, comprising both the preliminary and final parts, under the revised regulations. No examination under the existing regulations shall be held after the year 1918.

**When examination under Revised Oriental Title Regulations to begin**

(ii) Every institution which is now approved by the Syndicate under the existing Regulation 361 (Calendar, 1918) shall within six months of the coming into operation of the revised Regulations be required to declare in what subjects or groups of subjects it desires to be approved and such declaration shall entitle the institution to be treated as approved by the Syndicate in such subjects or groups of subjects :—

**Declaration by existing approved institutions**

Provided that, as shown in the table below, no institution shall be treated as approved in any language other than that in which it is now approved and in the case of the Siromani course in any branch other than that which

is identical with or partly comprised in the branch in which it is now approved:—

<i>Approval under the existing Regulations in</i>	<i>shall be tantamount to approval under the revised Regulations only in</i>
Sirōmani—Branch I—Vedīc group.	Sirōmani—Branch I—Mīmāṃsā group
Sirōmani—Branch II—Vedānta (Advaita or Viśiṭadvaitā or Dvaita).	The same group.
Sirōmani—Branch III—Nyāyā group	Sirōmani—Branch I—Mīmāṃsā group and Branch III—Nyāyā group
Sirōmani—Branch IV—Vyākaraṇa group.	Sirōmani—Branch IV—Vyākaraṇa group and Branch V—Sahitya group.
Vidvān with Sanskrit and one of the languages mentioned in Group I existing Regulation 342 (Calender, 1918).	Vidvān with Sanskrit and the same Vernacular.

(iii) Candidates for Titles in Oriental Learning who

**How to apply the new Regulations to candidates who began courses under the old Regulations**

(1) are able to produce certificates required under the existing Regulations of having completed at any time before examination of 1918 the courses prescribed under those Regulations, or

(2) after completing three years of such courses by the end of academic year 1917-18 continue their studies satisfactorily for another year under the revised Regulations and produce certificates to that effect from heads of approved institutions, or

(3) are exempted by the Senate from the production of the prescribed certificates,

shall be permitted to appear for the examination in April, 1919, or any subsequent year and shall be allowed to sit for both the preliminary and final parts thereof. They

shall be declared successful and eligible for receiving the diploma, if they obtain not less than forty per cent. of the total marks in all the papers relating to both the preliminary and final parts taken together; provided that, from the year 1920 those who obtain not less than forty per cent. of the total marks in the papers of the preliminary part alone shall be declared to have passed the preliminary examination and shall be admitted without any fresh certificate to the final examination in any subsequent year. Such successful candidates in both the parts taken together or in the final part shall be ranked and arranged in three classes, as indicated in Regulation 14 of Chapter XLI.

Other candidates who have satisfactorily completed two years of the courses prescribed under the existing Regulations by the end of the academic year 1917-18 shall be eligible for the certificate prescribed under Regulations 4 and 5 of Chapter XLI and may enter upon the course prescribed for the final examinations in any corresponding branch of study under the revised Regulations. Such candidates shall be admitted to the preliminary examination in April, 1919, and, if successful thereat, to the final examination in any subsequent year on the production of the prescribed certificate.

Other candidates who have satisfactorily completed one year of the course prescribed under the existing Regulations shall be deemed to have completed one year of the course in the corresponding branches of study under the revised Regulations.

(iv) The existing Regulations 349 and 350 (Calendar, 1918) regarding the admission test shall continue to have force for the Siromani and Vidvan Examinations until the date of the first departmental examination in Sanskrit and for two years thereafter.

(v) Notwithstanding anything contained in existing Regulations 351, 360, 367 and 368 (Calendar, 1918), candidates for Titles in Oriental Learning at the examinations held under the existing Regulations who qualified except in English for the grant

**Candidates qualified under old Regulations except in English**

of the diploma, shall be entitled to be presented with such diploma at any Convocation, irrespective of the qualifications in English required by those Regulations.

**Holders of Titles under old Regulations can appear for Examination for certificates**

(vi) Holders of Titles in Oriental Learning under the existing Regulations shall, at any time after the award of the diploma, be permitted to appear at the examinations held under the revised Regulations as candidates for certificates of proficiency in modern methods of study as applied to Oriental Learning. Such candidates shall not be required to produce the prescribed certificates of attendance at an approved institution.

**Candidates for Vidvan title who passed Preliminary Examination in 1919**

(vii) Candidates for the Vidvan title who passed the Preliminary Examination with Sanskrit held in April, 1919, shall take their Final Examination in accordance with the regulations in force in April, 1919.

(viii) Notwithstanding anything to the contrary, contained in Regulation 11 of Chapter XLI and until the commencement of the academic year 1927-28, heads of institutions approved with reference to the Vidvan course mentioned under 2 (b) of Chapter XLI shall be empowered to permit any student to enter upon that Vidvan course in their respective institutions, who in their opinion is fit to do so.

(ix) Notwithstanding anything to the contrary contained in Regulation 11 of Chapter XLI and until the date of the first departmental examination qualifying for admissions to the '*Siromani*' courses in *Jyotisa* and *Ayurveda* and for two years thereafter, heads of institutions approved with reference to Branch VI or Branch VII of the Siromani course, shall be empowered to permit any student to enter upon that course in their respective institutions, who in their opinion is fit to do so.

(x) In the case of students admitted prior to the commencement of the academic year 1928-29 into institutions approved for the Vidvan Course in Tamil alone, the admission test referred to in Law 11 of Chapter XLI (page 412), shall not be insisted upon.

12. Notwithstanding any provision to the contrary in the Regulations for the Degree of Bachelor of Science in Agriculture, candidates for the Degree who shall satisfy the Syndicate that prior to the affiliation to University of a College of Agriculture they have undergone instruction in and have completed the course of study prescribed for Part I of the examination for that degree, and have on the recommendation of the Syndicate been exempted by the Senate from the production of the certificates required for that part, shall be permitted to appear for both Parts of the examination for the degree in the same year, provided that they produce the certificates required for Part II of the examination.

Any such candidate who fails in not more than one subject in Part I of the examination and who obtains not less than 50 per cent. of the aggregate marks in that part shall be exempted from re-examination in the remaining subjects of that part and may appear again in any year for re-examination in the subject in which he has failed without the production of a further certificate, but shall not be eligible for the degree until he has passed the remaining subject of Part I in addition to Part II of the examination.

Any such candidate who fails in both parts shall be permitted to appear again for the examination in both parts on the production of a certificate of having attended an affiliated college for an additional year of instruction.

Any such candidate who passes in Part II but fails in Part I of the examination shall not be required to present himself again for examination in Part II, but he shall not be eligible for the degree until he has passed Part I in accordance with Regulation 9 (a) of Chapter XXXVI.

13. Candidates for the Intermediate Examination who commenced their courses of study for that Examination under the Regulations in force prior to the academic year 1927-28 shall be permitted to complete the Intermediate Examination under the above-mentioned Regulations, subject to the proviso that after the examinations of the year 1931 no candidate will be permitted to avail himself of this privilege and all candidates for the Intermediate Examination will thereafter be required to sit for the Examination under the Regulations then in force.

14. On and after the 1st of June 1928 candidates for the Intermediate Examination, who completed the first year's course of study prescribed for the Examination under the Regulations in force immediately prior to the academic year 1927-28 and were unable to complete the course under those Regulations, will be permitted to complete the second year course of study by attending classes under the new Regulations and to appear for the Examination under the new Regulations, subject to the proviso that this Regulation will remain in force only until the expiry of the Examinations of 1931 and that thereafter no candidate will be permitted to avail himself of the benefit of these Regulations.

15. Candidates for the B.A. Degree who have completed the Intermediate Examination under the regulations in force prior to 1927-28, shall be permitted to appear for the B.A. Degree Examination under the new Regulations until the end of the year 1935, under the following conditions: -

They shall be exempted from the examination in language under Part II, but shall be required to take an additional paper in English (subjects for composition) under Part I. Under Part III, they shall take the papers set under the new Regulations.

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## APPENDIX I.

### SYLLABUS

#### MATRICULATION EXAMINATION

##### Detailed Syllabus in Theoretical Geometry

*Angles at a point.*—If a straight line stand on another straight line, the sum of the two angles so formed is equal to two right angles and the converse.

If two straight lines intersect, the vertically opposite angles are equal.

*Parallel straight lines.*—When a straight line cuts two other straight lines, if

- (i) a pair of alternate angles are equal, or
- (ii) a pair of corresponding angles are equal, or
- (iii) a pair of interior angles on the same side of the cutting line are together equal to two right angles, then the two straight lines are parallel; and the converse.

Straight lines which are parallel to the same straight line are parallel to one another.

*Triangles and rectilinear figures.*—The sum of the angles of a triangle is equal to two right angles.

If the sides of a convex polygon are produced in order, the sum of the angles so formed is equal to four right angles.

If two triangles have two sides of the one equal to two sides of the other, each to each, and also the angles contained by those sides equal, the triangles are congruent.

If two triangles have two angles of the one equal to two angles of the other, each to each, and also one side of the one equal to the corresponding side of the other, the triangles are congruent.

If two sides of a triangle are equal, the angles opposite to these sides are equal; and the converse.

If two triangles have the three sides of the one equal to the three sides of the other, each to each, the triangles are congruent.

If two right-angled triangles have their hypotenuses equal, and one side of the one equal to one side of the other, the triangles are congruent.

If two sides of a triangle are unequal, the greater side has the greater angle opposite to it; and the converse.

Of all the straight lines that can be drawn to a given straight line from a given point outside it, the perpendicular is the shortest.

The opposite sides and angles of a parallelogram are equal: each diagonal bisects the parallelogram, and the diagonals bisect one another.

If there are three or more parallel straight lines, and the intercepts made by them on any straight line that cuts them are equal, then the intercepts made by them on any other straight line that cuts them are also equal.

*Areas.*—Parallelograms of the same altitude on the same or equal bases are equal in area.

Triangles of the same altitude on the same or equal bases are equal in area.

Equal triangles on the same or equal bases are of the same altitude.

Illustrations and explanations of the geometrical theorems corresponding to the following algebraical identities:—

$$k(a+b+c+\dots) = ka + kb + kc + \dots,$$

$$(a+b)^2 = a^2 + 2ab + b^2,$$

$$(a-b)^2 = a^2 - 2ab + b^2,$$

$$a^2 - b^2 = (a+b)(a-b),$$

$$(a+b)^2 - (a-b)^2 = 4ab,$$

$$(a+b)^2 + (a-b)^2 = 2a^2 + 2b^2.$$

The square on a side of a triangle is greater than, equal to, or less than the sum of the squares on the other two sides, according as the angle contained by those sides is obtuse, right or acute. The difference in the cases of inequality is twice the rectangle contained by one of the two sides and the projection on it of the other.

*Loci.*—The locus of a point which is equidistant from two fixed points is the perpendicular bisector of the straight line joining the two fixed points.

The locus of a point which is equidistant from two intersecting straight lines consists of the pair of straight lines which bisect the angles between the two given lines.



The locus of the vertices of all triangles which have the same base and the sum of the squares of their sides equal to a given square is a circle having its centre at the middle point of the base.

The locus of the vertices of all the triangles which have the same base and the difference of the squares of their sides equal to a given square is a straight line perpendicular to the base.

The locus of the vertices of all the triangles which have the same base and their vertical angles equal to a given angle is the arc of a segment of a circle.

*The Circle*—A straight line drawn from the centre of a circle to bisect a chord which is not a diameter, is at right angles to the chord; conversely, the perpendicular to a chord from the centre bisects the chord.

There is one circle and one only, which passes through three given points not in a straight line.

In equal circles (or, in the same circle) (i) if two arcs subtend equal angles at the centres, they are equal; (ii) conversely, if two arcs are equal, they subtend equal angles at the centres.

In equal circles (or, in the same circle) (i) if two chords are equal, they cut off equal arcs; (ii) conversely, if two arcs are equal, the chords of the arcs are equal.

Equal chords of a circle are equidistant from the centre; and the converse.

The tangent at any point of a circle and the radius through the point are perpendicular to one another.

If two circles touch, the point of contact lies on the straight line through the centres.

The angle which an arc of a circle subtends at the centre is double that which it subtends at any point on the remaining part of the circumference.

Angles in the same segment of a circle are equal; and if the line joining two points subtends equal angles at two other points on the same side of it, the four points lie on a circle.

The angle in a semi-circle is a right angle; the angle in a segment greater than a semi-circle is less than a right angle; and the angle in a segment less than a semi-circle is greater than a right angle.

The opposite angles of any quadrilateral inscribed in a circle are supplementary; and the converse.

If a straight line touch a circle, and from the point of contact a chord be drawn the angles which the chord makes with the tangent are equal to the angles in the alternate segments.

If two chords of a circle intersect either inside or outside the circle, the rectangle contained by the parts of the one is equal to the rectangle contained by the parts of the other; and the converse.

### Elementary Science (1) Physics, (2) Chemistry

*The examination shall test whether the subjects included in the following syllabus have been taught by the aid of experimental demonstrations—wherever this is possible. The application of physical and chemical facts and principles to experience in ordinary life should receive particular attention.*

*It is desirable that, as far as the accommodation and equipment of the school will allow, pupils receive practical instruction in the physical and chemical processes included in the syllabus.*

1. *Physics.*—Measurement of length. Meaning of a unit and the measurement of a physical quantity. British and metric units; their multiples and sub-multiples. Derived units of area and volume. Measurement of area and volume.

Measurement of time. Unit of time. Rotation of the earth. Measurement by simple pendulum.

*Speed:* its measurement involving length and time; calculation of speed in given cases. Elementary ideas regarding acceleration. Illustration of First Law of Motion; definition of force.

*Matter:* definitions. Measurement of mass. British and metric unit; determination of mass by spring balance, and by ordinary balance. Density and specific gravity.

*Gravitation.* All matter attracted by the earth; illustration of Second Law of Motion: attraction is mutual: illustration of Third Law of Motion: Universality of gravitation. Weight of a body. Distinction between mass and weight.

*Properties of matter.* Extension, inertia, gravitation, divisibility, porosity, hardness, elasticity, transparency and opacity. cohesion: ductility, malleability, brittleness: plasticity, viscosity. The three states of matter. Changes of state produced by heating and cooling. Permanent and temporary effects of heating different substances: effects on organic substances; tempering of metals.

*Simple machines.* The lever: its general principle and application to the common balance, and the wheel and axle. The pulley and the inclined plane: application of the screw.

**Centre of gravity; definition.** Experimental determination of centre of gravity in simple cases. Condition of equilibrium of a body resting in a given position; stable, unstable and neutral equilibrium. The common balance; how mass is measured by weighing.

**Solids:** permanence of shape and volume which are only altered by application of forces.

**Liquids:** no permanent shape. Surface of liquid at rest horizontal. Pressure defined. In fluids, it acts in all directions and is greater at greater depths. Transmission of pressure and its evaluation. Bramah Press. The principle of Archimedes; its experimental proof and applications.

**Gases:** how distinguished from liquids. Gases have weight. **Balloons**—Pressure of the atmosphere; the mercury barometer; variation of atmospheric pressure with height proved by mercury barometer; the water barometer. Evaluation of pressure of atmosphere by means of barometer applications. **Air-pump;** **Water pump.** Pressure of a gas: Boyle's Law.

**Temperature.** Liquids expand by heat; the special case of water. Thermometer used for measuring temperature by observing change of volume of liquid. The mercury thermometer; method of graduating; determination of fixed points; fundamental interval; the Centigrade and Fahrenheit scale. Thermal expansion of solids, liquids and gases.

**Distinction between heat and temperature.** Heat as a quantity and how it may be measured; the thermal unit; specific heat. Changes of physical state due to heat. Fusion and latent heat of fusion; evaporation and ebullition and latent heat of evaporation. Water vapour present in the atmosphere and determination of its amount. Cooling produced by solution and evaporation; freezing mixtures. The conduction and convection of heat; connection currents in the atmosphere and ocean; the trade winds; land and sea breezes and gulf stream. The circulation of water vapour in the atmosphere, clouds, rain.

**Light.** Rectilinear transmission. Rays and pencils of light, shadows etc., produced by different sources, and images of sources produced by pin-holes. The laws of reflection of rays of light; reflection of pencils by plane mirrors and images formed by plane mirrors. Direct reflection of pencils from concave spherical mirrors; experimental proof of law of distances. The laws of refraction of rays of light; refraction of rays through a plate and a prism. Refraction through a convex lens; experimental proof of law of distances; the principal focus of a lens. Image formed by a convex lens; the simple microscope; the photographic camera; the telescope. Analysis of white light by a prism; the method of producing, and order of colours in the spectrum. The spectrum of sun-light, and of candle light. Recombination of the colours of the spectrum into white light.

Electrification by friction; positive and negative electrifications. Laws of attraction and repulsion. Conductors and non-conductors. Simple voltaic cell; Grove's cell. Electric current. Magnetic effects of currents in straight and coiled wires. Simple galvanometer. Heating effects of currents. Simple facts of electrolysis.

Magnetic substances. Laws of magnetic attraction and repulsion. Magnetic induction. Methods of magnetization.

Graphic representation by use in squared paper of the relation between any two of the physical quantities referred to in the syllabus.

2. *Chemistry*.—Examples of mixtures and solutions; (1) sand and sugar, (2) sulphur and iron filings, (3) sand and sal-ammoniac, (4) copper sulphate and water. Explanation of the process of separating the ingredients of these mixtures, filtration, decantation, mechanical or magnetic separation, evaporation, distillation, sublimation.

Chemical compounds. Characteristic differences between compounds and mixtures; illustrations.

Chemical combination illustrated by (1) candle burning in air, (2) sulphur burning in air, (3) magnesium wire burning in air, (4) quicklime combining with water.

Chemical decomposition illustrated by (1) heating mercuric oxide, (2) action of sodium on water, (3) heating potassium chlorate, (4) heating lead nitrate.

Iron in contact with air and water is converted into rust. Rusting is oxidation. Copper, lead, mercury, magnesium, sulphur and phosphorus also oxidize; but their oxidation takes place at different temperatures. Rapid oxidation. Combustion of candle; the products of the combustion are heavier than the candle itself. One of these products is a gas which turns limewater milky and it is the same product which is obtained when charcoal burns in air. Water is another product of the combustion. Similar observation may be made and similar conclusions deduced when oil burns in air. Structure of a candle flame.

The rust or oxide is always heavier than the substance from which it is formed. When a substance (e.g. iron or phosphorus) oxidizes in a confined volume of air about one-fifth of the air ultimately disappears. Remaining air is inactive (e.g., candle will not burn in it.) Composition of air: air has two components: active (oxygen) and inactive (nitrogen).

Oxygen; its discovery; its mode of preparation and properties. Oxides; products formed when a candle, charcoal, sulphur, phosphorus, sodium or iron burns in oxygen. Burning in oxygen and air compared. Illustration of acid and alkaline properties.

Hydrogen produced by the action of sodium on water. Products of the decomposition. Same gas is produced when dilute sulphuric or hydrochloric acid acts on zinc, or on iron. Properties of hydrogen: its density and its combustion with air or oxygen. Water the sole product of their combustion.

Elements and compounds: Two ways of determining the composition of compounds (i) by synthesis, (ii) by analysis; illustrated by the case of water. Synthesis of water (i) by burning hydrogen in air or oxygen, (ii) by passing hydrogen over heated copper oxide. Analysis or decomposition (i) by action of sodium on water, (ii) by passing steam over red-hot iron filings, and (iii) by electric current. Composition of water by weight and by volume. Constancy of composition of chemical compounds illustrated by the case of water. Solvent action of water: crystallization, forms of crystals, water of crystallization. Solubility of gases in water, carbonic acid gas, air, and oxygen. Soda-water, spring, river, well, and sea-water. Suspended and dissolved impurities. Purification by distillation. Extraction of salt from sea-water by evaporation: salt pans.

Carbon; the different forms in which it occurs, their properties and uses. Carbon burnt in air or oxygen produces carbon dioxide. This gas is always formed when candles, oil, etc., burn. Its preparation and properties. Action on lime-water. Exhaled by living animals; action of plants on carbon dioxide. Solution of carbon dioxide in water and properties of the solution. Hard and soft water; permanent and temporary hardness. Methods of softening hard water.

Nitrogen, the inactive constituent of air; preparation and properties. Two of its important compounds, viz., nitric acid and ammonia.

(a) Nitric acid, its preparation from nitre and sulphuric acid. Its properties; power of dissolving copper and mercury and many other metals. Relations between acids, bases and salts illustrated by (1) nitre acid and caustic soda, (2) magnesium oxide and sulphuric acid, (3) lime and hydrochloric acid.

(b) Ammonia, its preparation and properties. Solubility in water; power of neutralizing acids and forming salts, such as ammonium chloride and nitrate; behaviour of these salts on heating.

Hydrochloric acid and chlorine. Treatment of common salt with sulphuric acid and production of hydrochloric acid gas. Properties of this gas; solubility in water. Production of chlorine from hydrochloric acid and manganese dioxide. Its properties, its power of combining with hydrogen and with metals, as antimony, to form chlorides. Bleaching action of chlorine.

Sulphur; the different forms; their properties. The changes induced by heat—when burnt in air or oxygen produces sulphur dioxide. Sulphuric acid—its properties and uses.

Phosphorus; the different forms, their properties and uses.

Silicon; occurrence in nature. Chief compound silica. Occurrence of silica in nature, free and combined as silicates. Chief forms of silica, quartz, sandstone, flint.

Metals and non-metals, their general properties.

Sodium and potassium; their occurrence and properties. Distinguishing properties of the alkali metals; their more important compounds; common salt, Glauber's salt, washing soda, sodium bicarbonate, caustic soda, potassium carbonate, potassium chloride, caustic potash, saltpetre, potassium permanganate. Gunpowder.

Calcium. Chief compound calcium carbonate. Its occurrence and various forms. Limestone burnt into lime in limekilns. Slaked lime. The use of lime in making mortar and plaster. Calcium sulphate; gypsum and plaster of Paris.

The occurrence, general method of preparation, properties and uses of the following Metals:—

Zinc, iron, copper, mercury, lead and silver. Their chief oxide and their salts which have been used or produced in experiments and illustrations included in the above syllabus.

## Syllabus for the History of Great Britain and Ireland

*Pre-Norman Period.*—The early inhabitants of Britain: their modern descendants; what languages they speak; where they live. The Roman occupation; Agricola. The coming of the English; their original homes; their chief tribes. The conversion of the English. Celtic and Roman Christianity; the supremacy of the latter; reasons and results. The struggle for supremacy between the Heptarchy Kingdoms: the supremacy of Wessex. The coming of the Northmen: who they were; the results of their coming. The struggle between Wessex and the Northmen: the victory of Wessex. Alfred: Athelstan: Edgar: Dunstan. The Danish conquest: reasons: Canute. The English line restored.

*The Norman and early Plantagenet Period.*—The Norman conquest; its causes and effects. Character of the Norman kings and of their rule. Feudalism. The opposition of the baronage to the royal power. The anarchy of Stephen's reign. Order restored by Henry II. His aims: his quarrel with Becket: reasons and results. The Reforms of Henry II. His foreign possessions; extent. His quarrel with the barons. The loss of Normandy: its effects. The baronage of a national party; struggle with John; the Great Charter. The weak rule of Henry III: subservience to

the Papacy: foreign favourites. The barons' war: Simon-de-Montfort, his character and aims. Revival of the monarchy under Edward I.; effect of the baronial war seen in his reforms. The beginning of Parliament. The conquest of Wales: the attempted conquest of Scotland and France. Edward II's reign. Bannockburn: temporary supremacy of the baronial party.

*The later Plantagenets.*—Edward III's reign. The Hundred Years' War: causes: Sluys: Crecy: Poitiers: the treaty of Bretigny: the Black Prince. Increased power of the Parliament. Social and economic changes: the Black Death: its results. Wat Tyler: the peasants' rebellions. The attempted autocracy of Richard II; his overthrow. Literary activity; Langland, and Chaucer. The Lancastrian kings, the strength of Parliament at the beginning. Beginning of dynastic troubles. Early religious reforming movement; Wycliffe: the Lollards. Rebellions against Henry IV. Renewal of the Hundred Years' War: reasons: Havre, Agincourt: the treaty of Troyes. The minority of Henry VI; failure in the Hundred Years' War: reasons; close of Hundred Years' War: effects. Renewed social troubles. Outbreak of dynastic Wars of the Roses: causes: chief events. Warwick the King-maker. The Yorkist Dynasty: its character and aims; reasons for its power. The effects of the Hundred Years' War on English political, commercial and social life.

*The Tudor Period.*—The strength of the Tudor possession of the throne. Their despotic rule. The overthrow of rival claimants. The final suppression of the old baronage. The creation of a new subservient baronage. The need for peace. Henry VII's Policy. Henry VIII's character. The career of Wolsey: foreign policy. Ecclesiastical reform: the Reformation in England: its causes. The overthrow of the Papal authority. The phases of the Reformation in England under Henry VIII, Edward VI, Mary and Elizabeth. Comparison with continental reformation: Luther and Calvin. Social results of the Reformation: the rebellions under Edward VI: Elizabeth's poor law. The jealousy of England and Spain: causes; English navigators; the development of English commerce. Elizabeth's foreign policy: the war with Spain: its results. Literary activity of the sixteenth century: its connection with the Reformation and the Renaissance. The three religious parties under Elizabeth: the Roman Catholics: the Anglicans: the Puritans: their aims and characteristics: chief sects of Puritans. The Anglicans supreme: policy of uniformity: absence of idea of toleration. The Puritans and royal political supremacy.

*The Stuarts.*—King and Parliament. The difference between the absolutism of the Tudors and the Stuarts. Suppression of the Roman Catholics: attempted suppression of the Puritans by James I. Growing hostility to royal power: the influence of Puritanism in the party of opposition. The chief points of dispute between the Crown and Parliament. The failure of Charles I's foreign policy: increased opposition met by further claims of the prerogative. The Petition of Right,

Temporary victory of the Crown. Renewed opposition over ship-money and Laud's religious policy. The Bishops Wars. Summons of Parliament. Early acts of Long Parliament. Outbreak of War: immediate and remote causes. Chief events of the war. The victory of the Parliament; reasons. Breach between the Parliament and the Army. The execution of Charles I. The Commonwealth: rule of Puritan minority. Cromwell in Ireland and Scotland. The Protectorate: Cromwell's character and aims. Reasons of his success and of the failure of his system. The Restoration: why possible. Net gains of the Rebellion. Puritan Literature: Milton: Bunyan. The despotic and catholic policy of Charles II and James II: the ministers of Charles II: his French intrigues. The Whigs and Tories: their respective aims. The Exclusion Bill. Temporary triumph of absolutism. Its overthrow at the Revolution: James' rashness compared with Charles' discretion.

*The Bill of Rights:* the triumph of Parliament. James II in Ireland: William III and Scotland. The beginnings of Party Government under William III and Anne: the unscrupulousness of party politicians: Harley: St. John: Marlborough. The reforms of William III: the Act of Settlement. The wars with France: causes. Marlborough as a general: the chief battles of the war. The treaty of Utrecht: English colonial gains.

*The Hanoverian Period.*—The Whig supremacy: Reasons for the discredit of the Tories. The 1715 rebellion. The rise and power of Walpole: his policy and methods. The establishment of Party Government with Prime Minister and Cabinet. The reasons for Walpole's long tenure of Office. The rise of an opposition. The Family Compact: hostility with Spain and France: reasons. Overthrow of Walpole. Whig supremacy continued with a war policy. The rise of the elder Pitt. The war of the Austrian succession: England's share in it; Colonial rivalry of France and England. The Seven Years' War: its phases: chief events. English gains in 1763. Pitt as a popular minister: his character and aims. The colonial policy of Pitt's successors: the loss of the American colonies. Chief events. Overthrow of the Whig supremacy; reasons for the weakness of the Whig party. Final check to royal control of politics.

II. *The Revolutionary Period.*—The Tory rule of the younger Pitt. Internal reforms and domestic policy of Pitt: comparison with the policy of Walpole. The outbreak of the French Revolution: Pitt forced into war. The revolutionary and Napoleonic wars: Chief events on sea and land. Death of Pitt: his character.

*Nelson and Wellington:* their careers and characters. Reasons for the success of England at sea. The role played by England in resisting the Napoleonic schemes. The downfall of Napoleon. Religious and literary activities of the period: Wesley: Burke. The industrial development: its nature and causes.

*The 19th Century.*—(1815—1902): The influence of the



**French Revolution in England.** The great period of reform. Economic and social evils: their causes and remedies: riots: socialist movement: the Chartists: the repeal of the corn laws: Sir Robert Peel: Cobden and Bright and free trade: factory laws: the spread of education. Political reform: the extension of the franchise: Cabinet government: municipal reforms. Great ministers of the period: Russell: Palmerston: Disraeli: Gladstone: Salisbury. Colonial expansion during the period. Wars of the period: mainly frontier and colonial: the Crimean war: the Boer war: causes: results and chief events. The life and influence of Queen Victoria. Great poets and novelists of the century.

### Syllabus for Indian History

#### *The Pre-Mussalman Period:—*

1. Physical configuration of India. Distribution of land and water: mountains, rivers and the sea. Position in relation to the rest of the world. Historical consequence of the foregoing.

2. The aboriginal and non-Aryan races.

3. The Indo-Europeans (so-called Aryans). Their immigrations and settlement. Aryan culture. Social and economic conditions. Caste (till circa 500 B.C.).

4. Social, economic, religious and political conditions in the sixth century B.C. Jainism and Buddhism. The growth of the kingdom of Magadha.

5. The satrapy of Darius (circa 500 B.C.). The invasion of Alexander. Its consequences and results.

6. Break-down of local independence. The Mauryan empire. Chandragupta. Asoka. Social, religious and economic conditions under the early Mauryans.

7. The disruption of the Mauryan empire. Rivalry between Brahmanism, Buddhism and Jainism and the Prakrit dialects and Sanskrit. The Sunga, Kanva and Andhra dynasties (circa A.D. 250).

8. Foreign influences, invasions and immigrations, Indo-Greek, Indo-Bactrian, Indo-Parthian, and Indo-Scythian dynasties. Revival of Buddhism. Kanishka's empire. Græco-Roman influence. The Great Satraps of the West. Religious and social conditions (till circa A.D. 300).

9. The Gupta dynasty and empire. Brahmanic revival. Literary activity. Religious and social conditions. Fa Hian.

10. The Huns, break up of the Gupta Empire,

11. The reign of Harshavardhana. Social, economic and religious conditions (till circa A.D. 650). Hiouen Thasank. The early Chalukyan empire in the Dekhan. The Pallavas in South India.

12. Minor local dynasties in North India—Kabul, Punjab, Sindh: Magada, Kanouj, Delhi: Behar and Bengal: Bundelkhand and the Central Provinces: Ajmir, Malwa and Gujarat.

13. The empire of the Dekhan to circa A.D. 1300—The early Chalukyas, the Rashtrakutas, the later Chalukyas and the Yadvas of Devagiri.

14. The South Indian supremacy. The Pallavas. The Chola supremacy. Cheras and Pandyas. The Hoysalas and the Kakatiyas. Economic and social conditions. Dravidian literary and religious activity.

*Medieval India (to circa 1761):*

1. Early Muhammadan invasions.

2. Mahamud of Ghazni. Mahamud Ghorî. The Slave, Khalji and Tuglakh, Shahi dynasties. Social, religious and literary conditions (circa A.D. 1400).

3. Break up of the empire of Delhi. Local Muhammadan dynasties in Jaunpur, Bengal, Malwa and Gujarat.

4. The Bahmini kingdom of the Dekhan: its break up, 1526: final conquest and absorption by the Mughal Empire.

5. History of the empire of Vijayanagar till A.D. 1565. The successors of Vijayanagar to circa 1750.

6. Rajputana till A.D. 1556.

7. The Great Mughals 1526-1707.

8. The Marathas to 1714.

9. Routes of Indo-European trade. The Saracen conquests, and the results on Indo-European commerce. The age of discovery. The Portuguese in India. Albuquerque. Causes of the decline of Portuguese power in India (till circa 600).

10. The decline of the Mughal empire, 1707-1761. The Maratha conquests, 1714-1761. Rise of the Sikhs. Panipat.

*Modern India (down to the death of the Queen-Empress)*

1. Importance of sea power in Indian History. Early English attempts to reach India. Rivalry between the Dutch and the English till 1623. The French in India till 1741.

2. The Karnatic Wars. Dupleix and Clive. French supremacy in South India. The English in Bengal. The Black Hole tragedy. Plassey. Final French attempts. Coote and Lally (till 1761).

3. The administration of Bengal, 1758-1771.

4. Rise of Haidar Ali. The First Mysore war, The revival of the Maratha confederacy. Madhava Rau, Peshwa (till 1772).

5. Warren Hastings.—English politics and Indian affairs (1748-72). The Regulating Act. Rohillas. Benares. The first Maratha and second Mysore wars. Effects of the American war. Suffren on the Indian seas. The First Armed Neutrality. Successful end of Hastings' administration. His work. Pitt's India Bill.

6. Cornwallis and Sir John Shore.—The Mysore war. Economic and administrative reforms. The policy of non-intervention.

7. Wellesley.—England and revolutionary France. War with Tippu. The second Armed Neutrality. The battle of Aboukir Bay. The Subsidiary System. Second and third Maratha wars. Minor reforms. Wellesley's work.

8. Cornwallis and Minto. Administrative reforms. Conference of Tilsit. Capture of Java.

9. Marquess of Hastings and Lord Amherst. Ghurka war. The Pindari war. Last Maratha war. Extinction of the Peshwa-ship. First Burmese war. The Bhartpur affair. Internal affairs.

10. Bentinck.—His reforms.

11. Auckland and Ellenborough.—Rise and history of Ranjit Singh. Afghanistan and the Punjab. The first Afghan war and the 'avenging expedition.' Conquest of Sindh. Gwalior affairs.

12. Hardinge and Dalhousie.—The first and second Sikh wars. Annexation of the Punjab. The second Burmese war. The 'doctrine of lapse.' Dalhousie's annexations. Railway and Telegraph.

13. Canning.—The Mutiny. Canning's clemency. The Queen's proclamation. India under the Crown. Financial and Military reforms.

14. India under the Crown to the death of the Queen Empress Victoria.

## Geography.

### (1) THE GEOGRAPHY OF INDIA

*The Indian Empire.*—Meaning of the term—a member of the British Empire.

*Position, Size and Boundaries.*—The chief routes to it from other parts of the world. Geographical extent of the country.

*Natural Divisions.*—Four well-marked—

- A. The Himalayan Region.
- B. The Indo-Gangetic Plain.
- C. The Southern Table-land.
- D. Burma.

*A. Himalayan Region.*—The nucleus of the system: the double Himalayan wall: the Himalayan peaks, passes and snow line. The Himalayan rainfall, forest and vegetation, cultivation, tribes, animals. The various influences of the Himalayas on India.

*B. The Indo-Gangetic Plain.*—The extent, formation and relief of the plain. The three river systems of Northern India: (1) The Indus (2) The Ganges, (3) The Brahmaputra. The basins of these rivers: their stages typical: mountain, plain and delta. The comparative importance of these rivers: their various uses. The Sindh and Rajputana desert region: reasons for its desert nature.

*C. The Southern Table-land.*—Dekhan and its mountain walls, the Vindhya, the Western Ghats and Eastern Ghats. The Carnatic plain and the Western coast strip. Passes from the coast: the Palghat gap.

The rivers of the inner plateau: The Mahanadi, the Tapi and the Narmada: the Godavari, the Krishna and the Cauveri. The basins of these rivers: their usefulness: the products grown in their basins. The rivers of Northern India and the rivers of the southern table-land compared. Snow-fed and rain-fed rivers.

The forests of the Dekhan: their products, tribes, animals.

*D. Burma.*—Natural divisions: the Arakan hills: the Irrawaddy and Salween basins: the Shan hills: the Martaban and Tenasserim coast strip. The rivers of Burma: their comparative usefulness.

The mountain: products, tribes. The islands of the coast compared with those of the west coast of India.

*Shape and Coast Line.*—Long but relatively short: its inaccessibility: difficulty of navigation inland: a detailed study of the coast. The connection between the little indented coast of India and her commerce and history. The chief harbours of India: the reasons for their importance, their difficulties.

*Climate and Rainfall.*—Climate: the laws which govern the climate of a country and their application to India: latitude, altitude, nearness to sea, direction of prevailing winds, direction

of chief mountain ranges, dryness and dampness, nature of the soil: the effects of climate on different parts of India.

*Rainfall.*—The N. E. and S. W. monsoons: the appropriateness of the names. Their duration and distribution of rain: the effect of the configuration of the land on their course. The connexion between the build and rainfall of the Indian Empire and its river systems.

*The Indian Seasons.*—Variation of temperature in different parts of India: Causes.

*Effects of Climate and Rainfall.*—On (a) rivers, (b) vegetation, (c) irrigation, (d) productiveness of land (e) distribution of population, (f) the food, clothing, occupation, structure of dwellings and character of the people.

*Products and Industries.*—*Agricultural Products:* why India is mainly an agricultural country? The impediments to better husbandry: the conditions favourable to the growth of particular crops in particular localities: the industries arising from these products: modes of preparation and manufacture and the present condition of the industries. Example: sugar, tea, indigo, cotton and tobacco.

*Pastoral products:* varieties, uses and extent.

*Forest products:* their localities and uses. Examples: teak, bamboo, sandalwood, lac.

*Mineral products:* (a) Coal: chief coal fields: comparison with the coal fields of England, (b) Iron: localities in which it is found, condition favourable to start iron industries and the obstacles in the way of starting them in India, (c) salt: the various ways in which salt is obtained and its localities. Similarly, (d) Gold: (e) Copper: (f) Mica: (g) Plumbago: (h) Petroleum: (i) Tin and Antimony: (j) Marble: (k) Diamonds.

*Industries.*—The reasons for their localization in particular places. Examples: silk-weaving, shawls, carpets, brass and copper ware, ivory and wood-carving, etc.

*Communications.*—*Internal:* Roads, rivers, canals, railways: their dependence upon the configuration of the land.

*External.*—The chief sea-routes: the change in the relative importance of harbours since the use of steamships.

*Trade.*—*Internal:* Demand of one part of the empire for the productions of another part facilitated by improved means of communication.

*External.*—The advantages of the Indian empire for trade by its connexion with England: chief exports and imports and the uses to which they are put.

*Frontier.*—Chief exports and imports.

The influence of trade and communication on the growth and decay of towns in the Indian Empire: determining physical conditions: other causes: political and strategical. The chief town of the Indian Empire.

*Peoples.*—Their distribution: their languages: their physical characteristics. The influence of geographical conditions on physique, distribution, language, habits and customs. Religions of the Indian Empire.

*Political Divisions:*

*A. British India (excluding Burma).*—The provinces: their position on the map: relief, coast line, rivers: climate: rainfall, products and industries: chief towns: causes of their growth and importance. The history in outline of the acquisition of each province: Madras Presidency in greater detail: its districts, etc.

*B. Native States.*—As above.

*C. Frontier, India and Burma.*—British Baluchistan: the N. W. Frontier province: Kashmir: Nepal: Bhutan: Sikkim: Assam border tribes: Manipuri: Frontier Burma: as above. The political importance of the Frontier.

(ii) THE BRITISH ISLES

*Position, Size and Boundaries.*—Relation to Europe. Latitude and longitude: the meridian of Greenwich. Advantages of position for communication with other land masses and comparison with the Japanese group. Connexion of position with development of British Empire. Area in square miles. Comparison with India.

*Coast line.*—General irregularity of coast line. The east and west-coasts compared. The fiord systems of the west of Scotland and Ireland. Similar systems, e.g., Scandinavian fiords, the South American fiords. Coast line studied in detail: chief bays, channels, river mouths, capes. The chief harbours, position defined: relation between position and importance; considered from the point of strategical and commercial importance. The coast line considered as a cause of Britain's maritime expansion.

The Islands of Britain. Comparison with Japan on the one hand and with India on the other. The tides of Britain: comparison with tides of India and reason for difference.

*Surface.*—Variety in geological structures. Distribution of mountain, hill and plain. The chief variations of surface studied in connexion with the map. The direction of mountain and hill. The main water partings: the principal rivers: their length compared with that of Indian rivers. Their value as means of communication considered. The geological connexion of Britain with the continent: compare the geological connexion of the Deccan with African and Malayia. In history the progressive plain v. conservative mountain tracts.

**Climate.**—Its insular nature. Comparison by a study of isotherms with places in the same latitude in the continent of Eurasia. Reasons for its insular nature: the Gulf Stream: prevailing winds. General comparison between east and west coasts: reasons for difference: the effect of the continent on the climate of the eastern counties.

**Rainfall.**—The effect of prevailing winds and the surface features on the rainfall. The greater rainfall of the west (*Cf.* the Western Ghats and the south-west monsoon of India).

**Vegetation and Agricultural products.**—Effects of rainfall on the vegetable products. The pasture of the west. Consequent greater breeding of sheep and cattle. The potato of Ireland: the oats of Scotland: dairy farming: the orchards: the wheat of the eastern counties. Reasons for the distribution: ground study of rainfall map. Chief agricultural towns.

**Fauna.**—The chief fisheries of Britain: their importance: towns connected with the industry. Horses and horse-breeding, cattle: sheep: pigs.

**Mineral Products.**—Coal and iron: chief areas of production: study in detail of a few towns in areas of production. Foreign iron *v.* native iron.

**Industries.**—Cotton-spinning: wool-weaving: linen-weaving: copper-smelting: ship-building: potteries. Salt-mining. Chief centres and towns: reasons for location. Effect of industries in modifying the conservatism of the mountainous north and west of England.

**Communications.**—Chief railways: radiating from London: reasons: waterways: inland and sea communication. The chief routes from Britain to India and the continents.

**Exports and Imports.**—The policy of free-trade: its effect on agriculture. The chief external grain-supplies of Britain: cotton: iron: wool: whence brought. The exports of India to Britain. The merchant marine and navy of England. The value and use of the former; the supremacy and necessity of the latter.

**Peoples.**—Chief races: distribution and languages. Government.

**Religion.**—Protestant mainly: established and non-established churches. Catholics.

### III. EUROPE.

**Position, Size and Boundaries.**—Comparison with other continents. Its geographical relationship to Asia.

*Shape and Coast line.*—Extraordinarily irregular: great length of coast line in proportion to its size. Comparison with other continents. The seas, bays, gulfs, river mouths, straits, capes, islands to be studied in connexion with the character of the coast line. The peninsulas of Europe, effect of broken coast line on the political and commercial development of Europe; the eastern half compared with the western half. The great inland seas of Europe, the North, the Baltic, Mediterranean, the Black and the Caspian Seas to be studied comparatively in their characters and effects upon man's activities.

The chief harbours of Europe; their position and relative importance for purposes of international and intercontinental trade.

*Surface and Relief.*—The Scandinavian mountains: the central plain: the southern mountain system: minor plains: minor mountain systems. Comparison of relief of Europe with that of Asia, e.g., in direction of mountain ranges: general resemblance of South European peninsulas with South Asiatic: average elevation of Europe compared with that of Asia. Chief heights; volcanoes.

*The Rivers.*—General trend of watershed north-east. Relative length of chief rivers: advantages and disadvantages of the river system. Relative importance of rivers for purposes of communication and irrigation. Deltas.

*Lakes.*—The Alpine and Baltic systems: their respective characteristics and functions.

*Climate and Rainfall.*—Oceanic and continental conditions: illustrated by increasing periods of icebound rivers, as one passes eastward: corresponding increase of high summer temperatures. Diagrammatic illustration by isothermal lines. Influence of prevailing winds and oceanic currents on climate and rainfall. Effect of mountain barriers in modification of temperature and rainfall. The effect of pressure on climate and rainfall illustrated by the summer and winter conditions of the Mediterranean region.

*Vegetation.*—Distribution according to latitude (a) extreme north; the mosses of the Tundras: (b) north temperate: pine-forest; oats, rye, barley: (c) central temperate: oak, beech; wheat, beet; flax, hemp; vine: (d) southern temperate: evergreens characteristic: maize, rice; olives, oranges: vine. Modifications of distribution according to latitude by other causes, e.g., altitude, mountain barriers, proximity to western ocean, illustrated by the distribution of wheat.

*Industries.*—Connected with the distribution of vegetation: wine-making: brewing: linen-making, sugar manufacture. Chief centres and towns. Export towns.



**Minerals.**—Wealth of Europe in minerals: iron and coal: proximity. Chief areas and towns. Chief cotton-spinning areas: their relation to the coal supply: climate determining factor in the distribution of this industry.

Other minerals: salt, copper, zinc, silica and china clay. Centres of production and manufacture.

**Fauna.**—Cattle, sheep, horses: condition and chief centres of breeding: their commercial value. Wool-making: chief centres. Reindeer: wolves. Fisheries: cod and herring: sardings: chief areas. Silk worms: conditions and chief areas of silk-worm: cultivation and of silk manufacture.

**Communications.**—Chief intercontinental land and sea routes: the railways connecting Europe with Asia.

**Population.**—Greater density in the west and central regions than in the eastern regions. Reasons: proximity to ocean, configuration, distribution of minerals, etc.

**Peoples.**—Effect of natural barriers on the distribution of peoples and creation of states. The chief countries of Europe; classification of the languages spoken: capitals. Summary under countries of information gained under previous headings.

**Religions.**—Christian: the three main divisions: Protestant, Roman Catholic and Greek Churches: probable effect of physical barriers, climate, race, upon their distribution. Muhammadans.

#### (iv) ASIA

**Position, Size and Boundaries.**—Relationship to Europe. Comparison with North America in respect of latitude covered between North Pole and Equator. The largest land mass: comparison with other continents of the old world.

**Shape and Coastline.**—Great longitudinal and latitudinal extent; Proportion to area: compared with other continents. Details: seas, bays, gulfs, capes. The peninsulas: similarity on a large scale to those of Europe. The eastern and western series of gulfs compared: effect of the archipelagoes on the former, effect of the absence of an inland sea on communication between the latter. The islands of Asia; Japanese group; comparison in situation with the British group in Europe. The Malayan Archipelago. Importance, strategical and commercial, of Asiatic islands to the British Empire. Chief Asiatic harbours, exclusive of the Indian: their position and relative importance for purposes of international and intercontinental trade. High average elevation of continent.

**Surface.**—The Siberian plain: comparison with great European plain. The central and southern plateau regions; the relation of the mountain ranges to the plateaux. The general continuity

of the mountain and plateau system with the European. Chief plateaux, ranges and peaks. The great lowland river plains: their isolation: effects on development of Asiatic civilization.

*Lakes.*—Areas of inland depression and drainage: The Caspian and Aral Seas: Lake Bachash: Lob-Nor, volcanic areas.

*The Rivers.*—The main watershed, a continuation of the European watershed; subsidiary drainage areas and water partings. The rivers of Asia, their length and volume compared with the great rivers of other continents. Relative importance of the chief rivers for purposes of communication and irrigation. Deltas.

*Climate and Rainfall.*—Extreme continental nature of climate over greater part of the continent. The Oceanic border. Monsoons: their areas of influence: modification effected by surface features. The hot southern deserts: their climatic relationship to the Sahara. The Mediterranean area. The climate of the bordering islands, dependent upon latitude. The central Siberian area: the North Siberian or Arctic area.

*Vegetation.*—Variation in productions according to areas of climate: latitude and altitude. The Arctic area to the north: Tundras *cf.* Northern Europe. The regions of forests and steppes with pasture: areas of cultivable land north of the bordering ranges of the central plateau: wheat possible:

The products of the Southern deserts similar to those of the Sahara: oases and date palms. Asia Minor: olives and figs, *cf.* Southern Europe. Oceanic border lands served by the monsoons: cotton, jute, rice, indigo, tobacco: illustrated by the products of the Indian lowlands. Tea: its conditions of growth and distribution. Connected industries relatively undeveloped; cotton-spinning: cheroot and cigar making. Products of the islands: sago, coconut, plantains and spices: their chief areas of cultivation.

*Fauna.*—Varying according to conditions: horses on the steppes: reindeer in the frozen north: yak in the Tibetan plateau: camel in the desert areas: the wild ass: the elephant. Wild beasts: tiger, lion, bears, typical: distribution and chief varieties.

*Minerals.*—Coal: areas of distribution: the vast resources of China. Petroleum, tin, salt and gold: areas of production. Mineral resources still largely undeveloped.

*Communications.*—Main trade routes by land, means of communications, animals: railways. Chief sea-routes: of relatively modern date. Effect of discovery of routes to Asia round Cape Horn and Cape of Good Hope: effect of Suez Canal on Asiatic trade. Combined sea and land routes to Europe across the North American continent. Probable effect of opening of Panama canal.

**Population.**—Areas of relative density: greatest density in Oceanic border lands and in great river low land basins. Probable effect of desiccation and decreasing pasturage of Central Asia on great Mongolian emigration into Europe, India, China.

**Peoples.**—Main varieties of races: effect of natural barriers in distributing and in the past in isolating peoples. Comparison with Europe. Governments.

**Religions.**—The chief religions: areas of distribution and races professing. Asia, the home of the great world religions: monotheistic religions developed in desert areas, compared with atheistic and polytheistic creeds of the monsoon areas.

#### (v) AFRICA.

**Position.**—Its relationship to Europe and Asia: its tropical character compared with other continents.

**Size.**—Comparison with other continental land masses.

**Boundaries, Outline.**—Simplicity and regularity. Absence of bays, peninsulas and islands. Results on history, climate, trade, and people of Africa.

**Relief.**—Relative uniformity of elevation: comparison with other continents. The main surface divisions into plateau: the relation of the mountain ranges to the plateau. The longitudinal rift: the lakes of the rift: the lakes of the eastern plateau. The river systems of Africa: their relation to the plateau: the basins of Nile. Lake Tehad, Niger, Congo, Zambesi, Limpopo, Orange. The courses of the chief rivers compared: the difficulties of navigation and their causes.

**Climate and Rainfall.**—Main climatic areas: the northern desert, its relationship to south-western Asia: the southern desert. Causes of desert conditions in each case. The tropical belt, the rainbearing winds of Africa: the monsoon. The coast lands: steppes: the equatorial highlands: relative suitability for colonization for different races.

**Vegetable products.**—Distribution according to climate, rainfall and relief: those of the central tropical belt compared with those of India; and Burma: ebony, teak, cotton, banana, sugar-cane, etc. The chief grain-growing areas. The desert-products of the north, the date palm. The products of the temperate south.

**Animals, etc.**—Characteristic animals of different climatic areas: the elephant: the lion: the giraffe: the zebra: the springbok: the camel: the gorilla: the ostrich: the crocodile: the tsetse fly: the locust. Comparison with Indian fauna: animals, etc., peculiar to Africa. Animal products: Ivory, ostrich feathers, wool, hides, where obtained.

*Mineral products.*—Distribution of minerals: chief minerals obtained: gold, diamond, salt, iron, coal: where obtained.

*Communication.*—Poverty of transport and poor communication: reasons. Recent growth of communications: the Cape-to-Cairo Railway: increased use of the rivers as waterways: the improvement of harbour. The desert-routes. Conquest, colonization and settlement: development of agriculture: the undeveloped wealth of the country. The chief harbours of the continent.

*Peoples.*—Caucasian and Negro stocks: their chief divisions and representatives: distribution of races: mixed races.

Relation of climate and other physical phenomena to their physique: occupations, social and political development. Modern European and Asiatic settlers.

Political divisions—mainly arbitrary and not related to physical phenomena, *cf.* Asia and Europe. The chief towns: the causes of their importance.

*Religion.*—Muhammadanism: fetish worship: Christianity Distribution of religions.

#### (vi) AMERICA.

##### *America (North and South).*

*Size.*—Comparison with Asia, Africa and Europe.

*Direction of land.*—Greatest length from north to south, its backbone of mountains running in the same direction: contrast in both these respects with Eurasia.

*Shape.*—Both triangular, with apex to the south.

*Surface.*—General similarity in distribution of mountain and plain.

##### *North America.*

*Position, Size and Boundaries.*—Comparison with other continents.

*Shape and Coast line.*—Greater irregularity with greater length of coast line than South America. Proportion of coast line to area compared with that of other continents. Details of coast line: great variety of temperature: Comparison in this respect with Asia. Currents, tides, fogs, icebergs. Details of coast line. Commercial advantages that result from the relation of the east and west coasts to Europe and Asia respectively. The chief ports of the continents and reasons for their development.

*Surface.*—The distribution of mountains. The Pacific coast ranges: the highlands of the Atlantic border. Alaska. The plateaux: the plateau of Mexico. The central plain.

*Rivers.*—The main watershed; the subsidiary water-partings; the low ridge of the central plain; the Atlantic highlands. The rivers of the western coast: the great rivers of the central plain. Their names, direction and relative importance, with differentiating physical reasons.

*Lakes.*—The great lakes: comparison with the lakes of other continents. Their commercial value: their connexion with the river system. The great lake ports.

*Climate and Rainfall.*—The climate of east and west coast contrasted: reasons for the difference: regions of oceanic and continental climate: physical causes effecting distributions of varying climatic conditions.

*Vegetations.*—Dependence on varying climatic conditions: the timber forests of Canada and the United States of America: their distribution. Wheat: maize: tobacco: cotton: sugar: where grown: conditions of growth. Fruit growing: oranges, apples, pears, etc., conditions of growth and areas of cultivation. Industries connected with vegetation: milling: cotton-spinning, fruit canning: pulping of timber for paper-making.

*Fauna.*—Furs of the north-west: seal fisheries: cod-fisheries: salmonfisheries. Connected canning. Stock raising: the tinning industry of Chicago: reasons for its location there.

*Minerals.*—Vast mineral wealth: coal: iron: petroleum: silver and gold. Great connected industries. Location of industries: chief towns.

*Communication.*—Waterways: chief trans-continental rail ways, connected intercontinental sea-routes.

*Population.*—Density greatest in the manufacturing area. Their density of modern date.

*Peoples.*—Aboriginal and immigrant. Governments.

### *Central America*

*Position, Size and Boundaries.*—Lies between latitude 10° and 20°. Belongs more to North America than to South America.

*Shape and Coast line.*—Great in proportion to area. Difference between eastern and western coasts. Comparative commercial advantages.

*Surface.*—Mountain ranges to the west: plateau: coastal plain. Rivers short, but well supplied with water. Volcanoes.

*Climate.*—Hot and unhealthy: rainfall heavy: causes.

*Vegetation.*—Luxuriant: chief products, coffee, cocoa, valuable forest timber, e.g., mahogany; maize; plantains and other tropical plants.

*Fauna*.—Cattle pasture on the highlands. Industries: undeveloped.

*Minerals*.—Gold and silver the chief at present: undeveloped.

*Peoples*.—Spanish and Indian Governments: mainly republics: continual revolutions. The Panama Canal schemes: importance to great nations.

### *West Indies*

*Position and Size*.—Relation to the two continents of North and South America. The double line of islands. The four main groups.

Comparison with area of Great Britain. Chief islands and relative coast line: size: effect of winds on character and position of harbours, chief harbours.

*Surface*.—Mountainous except Bahama group: the coastal plains, Chief heights. Volcanoes.

*Climate and Rainfall*.—Tropical: latitude of islands: modification of heat (*a*) by altitude, (*b*) by trade-winds. Position with regard to general direction of the Trades: causes of heavy rainfall. Hurricanes; causes.

*Vegetation*.—Soil largely volcanic: extreme fertility. Chief productions: tropical. Sugar, coffee, tobacco, cocoa, fruits, spices, mahogany.

*Minerals*.—Coal and iron of Cuba: asphalt of Trinidad.

*Peoples*.—Negroes: Mulattoes. British possessions. French possessions. Half-Spanish-Cuban republic. Indian immigrants.

### *South America*

*Position, Size and Boundaries*.—Latitude covered: comparison with Africa. Comparison with North America and other continents.

*Shape and Coast line*.—General resemblance to Africa. Proportion of coast line to area: comparison with other continents: study of coast line in detail: bays, straits, rivermouths, capes. Mangrove-swamps: sandreef: lagoons: fiord system. Scarcity of good harbours: reasons. Chief harbours; their position and reasons for importance: The east and west coasts compared. Islands: paucity and unimportance: reasons.

*Surface*.—General resemblance to North America. Contrast with Africa. The vast length of the Andes: The Venezuelan and Brazilian highlands. The inward gradual slope of the latter systems. Effect on the drainage of the continent. The chief peaks of the Andes (*a*) in its northern treble chain, (*b*) in its central

double chain, (c) in its southern single chain. Volcanic peaks. The Bolivian plateau.

*Rivers.*—The three great systems of the Orinoco, the Amazon and the La Plata rivers; their connexion, comparison of these South American river systems with those of North America. Comparison of Amazon and La Plata rivers with the Nile, Congo, Yang-tse-kiang, Mississippi, Indus and Ganges in point of length, volume and navigability. Detailed study of the basins of the two rivers and their relative commercial value: comparison in latter respect with Mississippi. Deltas. No rivers of importance on western coast: reasons.

*Lakes.*—Poverty of South America in lakes; **Lake Titicaca**: its causes.

*Climate.*—Hot humidity of the continent. Reasons: the low lying river plains: the prevailing winds: effect of the mountains upon rainfall: its enormous quantity: hence the volume of the rivers. The effect of the mountains further seen in the barren areas of the Pacific coast; the Atacama desert. The west coast lands compared in point of climate and rainfall with the lands east of the Andes. Modification of temperature by altitude: Quito on the equator. The Shingle desert.

*Vegetation.*—Relation to rainfall: causes of the location of selvas. Llanos, pampas. Their respective characteristics. Tapioca, cocoa, maize, cinchona, mate, tobacco, potatoes, the chief indigenous products. Forest products: rubber. Wheat, rice, coffee, sugar, cotton; chief areas of cultivation: reasons for their success.

*Fauna.*—Horses, cattle and sheep; their distribution: reasons. The Llama and alpaca: description; their utility. Guano.

*Wild Animals.*—Jaguar. Reptiles such as boa constrictor: the alligator. Humming birds.

*Minerals.*—Gold and silver and their chief areas of production; Potasi silver; nitrates; where obtained.

*Communications.*—Waterways; railways and roadways. Chief sea-routes: intercontinental routes.

*Peoples.*—Relative paucity of population as compared with other continents. Chief areas of density: reasons.

*Governments.*—Names of Republican countries, situation and races inhabiting them. Modern immigrants: Italian immigration into the Argentine and the Amazon valley: Indian immigrants into British Guiana. Mainly suitable for emigrants from tropical and subtropical regions. The aboriginal races of South America.

(vii) AUSTRALASIA AND POLYNESIA.

*Australasia: Australia, Tasmania and New Zealand.*

*Size and Position.*—Australia compared with other continents. Its insular position. Commercial and political effects. Tasmania and New Zealand. Compared with Great Britain in size; proportion they bear to Australia. Latitude of Tasmania and New Zealand. Position of the latter compared with that of Britain. Chief results of its position on climate, products and trade.

*Coast line: Australia.*—Its regularity: comparison with the coast line of other land masses. Study of coast line in detail: its bays, gulfs, capes. Paucity of good harbours: the chief harbours: reasons for their importance. Results of regularity of coast line upon climate.

*New Zealand.*—The general character of the coast line compared with that of Australia. The chief harbours: effect of currents and prevailing winds upon harbourage.

*Tasmania*—Coast line and harbours.

*Surface: Australia.*—The coastal plain: central plateau with its highland outward ridge. The Australian deserts compared with the Sahara. The chief ranges: the great dividing range: its most important peaks. The rivers: effect of plateau bordering ridge on the length and direction of the rivers. The paucity of great rivers: reasons. The Murray-Darling system. The inland drainage system of Lake Eyre, compared with those of the Aral and Lob-Nor systems in Asia and of Lake Tchad in Africa.

*Tasmania.*—The eastern and western surface areas.

*New Zealand.*—The central ranges; chief heights: Volcanoes. The Canterbury plains. Effect of position and direction of mountain ranges on the length and utility of the rivers.

*Climate and Rainfall: Australia.*—The continental character: reasons. Effect of latitude upon the climate. General resemblance to the climatic conditions of South Africa. The climate and rainfall of the Sahara and the Australian deserts compared. The prevailing winds and currents. The rainfall of the east and west coasts compared. Reasons for difference. Comparison of rainfall of South Africa and Australia; effects of surface upon rainfall. Results of conditions of climate and rainfall upon distribution of population. The populous south-east.

*Tasmania and New Zealand.*—Climate insular: in the track of prevailing Westerlies; comparison with Great Britain.

*Vegetation: Australia.*—Adaptation of native vegetation to climatic conditions: the salt-bush and the eucalyptus: their uses and value. Agriculture. Its main areas and products: vine and wheat in the southern lands. Tropical products of Queensland.



*Tasmania and New Zealand.*—Contrast with Australia: fruit culture in Tasmania. Pasture and wheat in New Zealand.

*Fauna.*—*Australia*: Indigenous mammals; the Kangaroo. Sheep breeding: its great extent: reasons.

*Tasmania and New Zealand*—Sheep rearing.

*Mineral products: Australia.*—Gold the most important: its ancient crystalline rocks. The Dividing Range and the Western plateau. The chief areas of gold. Chief gold towns. Coal: where produced. Tin.

*Tasmania and New Zealand.*—Tin. Gold. Chief centres of production.

*Communications.*—Difficulties of trans-continental communication. Chief ports of intercontinental communication.

*Peoples.*—Aborigines of Australia, Tasmania and New Zealand. British settlers. Governments. The Australian Commonwealth. British Colonies.

*POLYNESIA.*—The double line of islands: British New Guinea and the Fiji Islands: position, size, and climatic character of both. The Fiji Islands as an object of Indian emigration: their surface, features and chief products.

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## SUBJECTS FOR EXAMINATION

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### TEXT-BOOKS RECOMMENDED BY THE BOARDS OF STUDIES AND APPROVED BY THE ACADEMIC COUNCIL.

1930

#### ENGLISH

#### 1. *Text-books of which a detailed knowledge will not be required.*

1. *Heroes of Exploration* by Alfred J. Ker and Charles H. Clever—Blackie & Son., Ltd., Madras Branch, Madras.
2. *Peeps at Many Lands—Ceylon*—by Alfred Clark—Macmillan & Co., Ltd., Madras Branch, Madras.
3. *The Tales of Ten Companions* by F. R. Sell—Longmans Green & Co., Ltd., Madras Branch, Madras.
4. *Rupert of Hentzau*, by Anthony Hope—Abridged by E. V. Rieu—Stories retold series—Oxford University Press, Madras Branch, Madras.

2. *Text-books of which a detailed knowledge will be required.*

The text-book containing the selections in Poetry and Prose has been published by the University of Madras and copies thereof can be had from Messrs. C. Coomarasawmi Naidu & Sons, G. T., Madras, Agents for the sale of University Publications.

The following text-books in English of which a detailed knowledge *will not be required* are prescribed for the Matriculation Examination of 1931:—

- (1) The Life and Adventures of Robinson Crusoe by Daniel Defoe—Abridged and edited for schools by J. Hutchinson—Macmillan & Co., Ltd., Madras Branch, Madras.
- (2) Senior Heroes of the Mahabharata by E. Graham Sutton, M.A. (Oxon)—The Indian Publishing House, Limited, No. 5, Sunkurama Chetti Street, Georgetown, Madras.

HISTORY.

British History, from 1714—1902.

Indian History—Modern India.

SANSKRIT.

Selections published by the University.

MARATHI.

*Prose—*

Vāchanapāthamālā—Part I, Book II—pages 160—318, by K. G. Kinare.

*Poetry—*

The following extracts from Navanita (Edition 1918):—

Moropant—Kekavali, pages 353—359.

Vaman—Bharata Bhava, pages 112—122.

Mukteshwar—Narada Niti, pages 172—181.

N.B.—All the above books can be had from New Kitab Khana, Poona City, or Messrs. Parachure Puranick and Co., 'Mādhav Bāgh', Bombay.

ORIYA.

Selections published by the University.

HINDI.

Ramadin Misra's Sahitya Sudhaker.  
Maithili Saran Gupta's Jayadrathabaddh.  
Preveshika Hindi Vyakaran.

} Granthamala  
Office, Banki-  
pur.

**Latin.**

Caesar : De Bello Gallico, Book I, Chapters 30-54.

Phaedrus : Fables. Book I (Macmillan's Elementary Classics).

**French**

Jean de la Bréte : Mon Oncle et Mon Curé (Stepmann's Advanced French Series, Macmillan).

Poèmes Choisis 39-54. Edited by Du Pontet (Arnold).

**German.**

Text-books will be prescribed, if required.

**Arabic, Persian and Urdu**

*Arabic—*

Mirqât-ul-Adab.

*Persian—*

Gulistán—Chapters 4, 7 and 8.

*Urdu—*

Marâqqâ-i-Adab—Part 4.

**Tamil, Telugu, Kanarese, Malayalam and Oriya**

Selections published by the University.

## APPENDIX II

### Syllabus

#### Intermediate Examination in Arts and Science.

#### MATHEMATICS.

In addition to the subjects prescribed for the Matriculation, the courses shall comprise Algebra, Plane Trigonometry and Geometry. A candidate shall be required to be acquainted with the use of logarithmic tables and to be able to solve questions by graphic methods, and to have an experimental knowledge of the simple geometrical solids and their sections.

(a) *Algebra*.—Algebraical laws and principles and their applications. Ratio and proportion. Theory of indices. Variation. Simple surds. Equivalence of system of equations. Solution of equations of the second degree in one or two variables and of equations of higher degree whose solution depends on them. Theory of the equation and expression of the second degree in one variable. The three progressions and other series whose summation depends on arithmetical and geometrical series. Interest and annuities. Permutations and combinations. The Binomial theorem for a positive integral exponent and direct applications of the theorem for any exponent. Elementary theory of logarithms and their applications to arithmetical computation. Problems on the above.

(b) *Plane Trigonometry*.—Measurement of Angles. Trigonometrical functions and their relations to one another. Solution of simple trigonometrical equations. Addition, multiplication and division formulæ. Properties of triangles and of the circles connected with them. Solution of triangles. Application of logarithms to trigonometrical computations. Measurements of heights and distances.

(c) *Geometry—Experimental*.—Construction of scales and their use. Construction of similar figures. Construction of the circumscribed, inscribed, escribed and other associated circles of triangles, and polygons. Constructions from data of triangles, quadrilaterals and polygons and their division in any given ratio. Areas of polygons and problems relating thereto.

*Theoretical*.—Ratio and proportion. Similar figures, Concurrence and collinearity. Properties of triangles, Properties of circles. Loci. Elementary maxima and minima. Proofs of the constructions in *Experimental Geometry*. Easy deductions.

#### DETAILED SYLLABUS IN THEORETICAL GEOMETRY.

**N.B.**—The order in which the theorems are stated in this Syllabus is not imposed as the sequence of their treatment.

*Ratio and Proportion.*—Definition and elementary theorems connecting the antecedents and consequents.

A given straight line can be divided internally in a given ratio at one, and only one point; and externally at one, and only one point.

A straight line drawn parallel to one side of a triangle cuts the other two sides, or those sides produced, proportionally; and the converse.

If the vertical angle of a triangle is bisected internally or externally, the bisector divides the base internally or externally into segments which have the same ratio as the other sides of the triangle: and the converse.

In equal circles, angles, whether at the centres or circumferences, have the same ratio as the arcs on which they stand.

Triangles and parallelograms of equal altitude are to one another as their bases.

If two triangles have one angle of the one equal to one angle of the other, their areas are proportional to the rectangles contained by the sides about the equal angles. Similarly for parallelograms having one angle of the one equal to one angle of the other.

*Similar Figures.*—If two triangles are equiangular their corresponding sides are proportional: and the converse.

If two triangles have one angle of the one equal to one angle of the other and the sides about these equal angles proportional, the triangles are similar.

Two triangles are similar, if the sides of the one are respectively parallel or perpendicular to the sides of the other.

If two triangles have two sides of the one proportional to two sides of the other, and an angle in each opposite one corresponding pair of these sides equal, the angles opposite the other pair are either equal or supplementary.

If from the right angle A of a right-angled triangle ABC, AD is drawn perpendicular to BC, then (1) AD is the mean proportional between BD and DC, (2) BA is the mean proportional between BD and BC and (3) CA is the mean proportional between CB and CD.

If two triangles are similar, their corresponding lines (such as medians, altitudes, inradii, etc.) are to one another in the ratio of their corresponding sides.

Similar triangles are to one another as the squares on their corresponding sides.

Two similar polygons can be divided into the same number of triangles similar to each other and similarly placed; and the converse.

The perimeters of two similar polygons are to each other as any corresponding sides.

Areas of similar polygons are proportional to the squares on corresponding sides.

*Concurrence and Collinearity.*—The use of signs as applied to lines, angles and areas. If two parallel lines are cut by three or more concurrent transversals, the corresponding segments are proportional; and the converse.

If X, Y, Z, are points in the sides BC, CA, AB of a triangle ABC, such that the perpendiculars to those sides at these points are concurrent, then

$$(BX^2 - XC^2) + (CY^2 - YA^2) + (AZ^2 - ZB^2) = 0;$$

$$\text{or} \quad BX^2 + CY^2 + AZ^2 = CX^2 + ZB^2 + AY^2,$$

and the converse.

If any transversal meets the sides BC, CA, AB of a triangle in D, E, F, then

$$AF \cdot BD \cdot CE = AE \cdot CD \cdot BF;$$

and conversely, if three points D, E, F taken on the sides BC, CA, AB of a triangle, satisfy the relation  $AF \cdot BD \cdot CE = AE \cdot CD \cdot BF$  then D, E, F, are collinear.

If the lines joining any point to the vertices A, B, C of a triangle meet the opposite sides in D, E, F;

$$\text{then } AF \cdot BD \cdot CE = FB \cdot DC \cdot EA;$$

and conversely, if three point D, E, F, taken on the sides BC, CA, AB of a triangle, satisfy the relation  $AF \cdot BD \cdot CE = FB \cdot DC \cdot EA$ , then AD, BE, CF are concurrent.

If two unequal similar figures are similarly placed, the lines joining the vertices of one to the corresponding vertices of the other are concurrent.

*Properties of Triangles.*—The three medians of a triangle meet in a point, and this point is a point of trisection of each median, and also of the line joining the circumcentre to the orthocentre.

If D is a point in the side BC of a triangle ABC such that  $BD = \frac{1}{n} BC$ , then

$$(n-1) AB^2 + AC^2 = n \cdot AD^2 + (1-1/n) BC^2.$$

The perpendiculars from the vertices of a triangle on the opposite sides meet in a point, and the distance of each vertex from the orthocentre is twice the perpendicular distance of the circumcentre from the side opposite to that vertex.

The circle through the middle points of the sides of a triangle passes also through the feet of the perpendiculars of the triangle and through the middle points of the three lines joining the orthocentre to the vertices of the triangle.

If a perpendicular drawn from the vertex to the base of a triangle is produced to meet the circumcircle, then the distance of this point of intersection from the base is equal to the distance of the orthocentre of the triangle from the base.

The feet of the perpendiculars drawn on the sides of a triangle from any point P on the circumcircle of that triangle are collinear.

The pedal line of P bisects the line joining P to the orthocentre of the triangle.

If the vertical angle of a triangle is bisected by a straight line which cuts the base, the rectangle contained by the sides of the triangle is equal to the rectangle contained by the segments of the base together with the square on the straight line which bisects the angle.

If from the vertical angle of a triangle a straight line is drawn perpendicular to the base, the rectangle contained by the sides of the triangle is equal to the rectangle contained by the perpendicular and the diameter of the circle described about the triangle.

*Properties of Circles.*—The locus of the points of intersection of tangents drawn at the extremities of chords of a circle which pass through a fixed point, is a straight line.

If the polar of A passes through B, then the polar of B passes through A.

If P and Q are any two points in the plane of a circle whose centre is O, then OP bears to OQ the same ratio as the perpendicular from P on the polar of Q bears to the perpendicular from Q on the polar of P.

The locus of points from which the tangents to two given coplanar circles are equal is a line perpendicular to the line of centres.

In two circles, if any two parallel radii are drawn (one in each circle), the straight line joining their extremities cuts the line of centres in one or other of two fixed points called (centres of similitude).

If through a centre of similitude of two circles, a line is drawn cutting the circles, the radii to a pair of corresponding points are parallel.

If through a centre of similitude S of two circles, a line is drawn cutting the circles, then the rectangle under the distances of one pair of non-corresponding points from S is equal to the

rectangle under the distances of the other pair of non-corresponding points from S; and each of these rectangles is constant.

In a cyclic quadrilateral the rectangle contained by the diagonals is equal to the sum of the rectangles contained by the opposite sides.

*Loci.*—If from a fixed point O a variable line is drawn, and in it points P, Q are taken, so that the ratio of OP to OQ is constant then (1) if P moves along a straight line, the locus of Q is a parallel straight line; (2) if P moves along the circumference of a circle, the locus of Q is a circle.

The locus of a point which is such that the rectangle under its distances from the equal sides of an isosceles triangle is equal to the square on its distance from the third side, is the circle which touches equal sides at the extremities of the third side.

If A, B are fixed points, and P a variable point, such that the ratio of PA to PB is one of constant inequality, then the locus of Q is a circle.

Given the base and vertical angle of a triangle, find the locus of (1) its incentre, (2) orthocentre, (3) centroid, (4) excentres.

If a triangle ABC of given species has one corner A fixed, another B always on a fixed line or circle, then the locus of C will be a line or circle.

*Elementary Maxima and Minima.*—When two sides of a triangle are given in length, the area of the triangle is greatest when they are placed at right angles.

The maximum triangle which can be inscribed in a given segment of a circle is that formed by joining the middle point of its arc to the extremities of its chord.

If A, B are two fixed points, and XY a fixed line; then for that point P in XY at which AP, BP make equal angles with XY,

(1)  $AP \times PB$  is minimum, if A, B are on the same side of XY.

(2)  $AP \oslash BP$  is maximum, if A, B are on opposite sides of XY.

If A, B are fixed points and P any point in a fixed line, the angle APB will be maximum, when the circle APB touches the fixed line.

Of all triangles having the same base and equal area the isosceles triangle has the minimum of perimeter.

The maximum of isoperimetric triangles on the same base is the one whose two side are equal,



Of all polygons having all sides given but one, the maximum can be inscribed in a semi-circle having the undetermined side as diameter.

Of all isoperimetric polygons of the same number of sides, the equilateral is the maximum.

If P is any point in a given straight line AB, AP. PB is maximum and  $AP^2 + PB^2$  is minimum when P is the middle point of AB; of all rectangles, of given area, the square has the minimum perimeter.

The maximum parallelogram which can be inscribed in a triangle by drawing parallels to two of its sides, is that formed by drawing the parallels from the middle point of the third side.

## PHYSICS

### *Theory*

No question shall be asked which cannot be answered by simple mathematical methods.

The course shall include a more detailed study of the matter included in the Matriculation syllabus and in addition the following:—

*Dynamics.*—The units of length and time. Displacement, speed, velocity and acceleration of a particle moving in a straight line. Newton's laws of motion; the units of mass and force. Motion of a particle in a straight line under the action of a force in that line. Motion under the action of gravity. Energy, work, power and their units; simple illustrations of the conservation of energy.

\*Conditions of equilibrium of a body under three concurrent forces (the parallelogram law), and under parallel forces. Centre of gravity. Simple machines. The simple pendulum; determination of  $g$ .

*Hydrostatics.*—Pressure at a point in a fluid; definition and illustrations; transmissibility of pressure. Evaluation of pressure at a point in a heavy fluid at rest; its uniformity in all directions. Resultant thrust in simple cases. The principle of Archimedes, floating bodies, and hydrometers. Applications to practical determination of density and specific gravity. The pressure of a gas and its determination; the barometer. Boyle's law; air pumps and water pumps.

*Heat.*—Temperature and its measurement; the construction and graduation of thermometers. The thermal expansion of solids, liquids and gases and their accurate determination; the air thermometer. Heat as a quantity; the unit of heat, specific heat and the more direct methods of calorimetry. Laws of fusion, evaporation and ebullition; latent heat. Vapour pressure and how it is measured; hygrometers. Conduction

and connection of heat; thermal conductivity. Radiation; absorption and reflection; law of cooling. The dynamical equivalent of heat and its determination.

*Light*.—The experimental facts and laws of transmission, reflection and refraction of light; simple geometrical deductions from these, applicable to small direct pencils incident on plane and spherical surfaces, prisms and lenses. Applications to optical lantern, spectacle lenses, telescope and microscope. Total reflection. Dispersion of light; the spectrometer. Radiation and absorption spectra. Determination of refractive indices.

*Magnetism*.—Properties of magnets: poles. Laws of magnetic force; unit poles. Lines of force; uniform magnetic fields and experimental methods of comparing them. The earth's magnetic field; the compass. Magnetic induction; the magnetic properties of iron and steel.

*Electricity*.—The more common forms of voltaic cells and the actions that go on in the cells while producing a current. The action of currents on magnets; galvanometers depending on such action including suspended coil type. Metallic conductors and electrolytes; laws of electrolysis. Electromotive force; Ohm's law: resistance and simple methods of measuring *c.m.f.*, current and resistance; Wheatstone's bridge. Heating effects of current; fuses and lamps; Joule's law. The Electro-magnet and its simpler applications.

*Sound*.—The production and propagation of sound; the velocity of sound in air and its determination. Nature of wave motion and sound waves. Frequency of vibration; pitch. Amplitude of vibration; loudness. \*Laws of vibration of strings and air columns. The reflection of sound; echoes.

*N.B.*—Asterisk\* before a para. in a sentence means that for the topics included "only experimental proofs are required."

In the above the asterisk applies to the whole of para. 2 under Dynamics and to "Laws of vibration of strings and air columns." under Sound.

*Practical Physics for the Intermediate course.*

The following scheme is not exhaustive, but is intended to indicate the general nature and extent of the Courses of Instruction in Practical Physics for the Intermediate Examinations:—

*Course of Instruction in Practical Physics.*—

Length measurements by millimeter scale, vernier, micrometer-Gauge and spherometer.

Measurement of areas and volumes.

Verification of conditions of equilibrium of a body under coplanar forces.

Determination of the centre of gravity of a plate.

Verification of the law of a simple pendulum: determination of  $g$ .

The inclined plane; pulleys.

Use of balance, sensitive to  $\cdot 01$  gram.

Determination of volumes by weighing in water; determination of capacities of vessels.

Specific gravities of solids and liquids; hydrometers.

Reading Fortin's barometer and correcting for temperature.

Verification of Boyle's law.

Determination of fixed points of thermometer.

Determination of co-efficient of expansion of a rod.

Determination of co-efficient of apparent expansion of a liquid.

Expansion of air at constant pressure.

The constant volume air thermometer.

Curves of cooling.

Melting points.

Determination of specific heats of solids and liquids.

Latent heat of water and steam.

Determination of vapour pressures.

Boiling points.

Use of Regnault's (or Dine's) and wet and dry bulb hygrometers.

Comparison of thermal conductivities.

Radiation of heat from different surfaces.

Determination of the Mechanical Equivalent of heat.

Verification of the laws of reflection.

Tracing the path of a ray of light through a block of glass and deduction of refractive index.

Focal lengths of concave mirrors and convex lenses.

Arrangement of 2 lenses for telescope, microscope, and optical lantern.

Measurement by spectrometer of the angle of a prism, and the refractive index for sodium light.

Use of simple photometers.

Tracing the lines of force in a magnetic field.

Comparison of magnetic moments.

Comparison of strength of magnetic field by vibration.

Study of the simple cell, the Daniell, Leclanche; storage cell and the dry cell.

Absolute measure of current (i) by tangent galvanometer, (ii) by electrolysis.

Measurement of heat developed by current.  
Measurement of resistance of wires.  
Comparison of electromotive forces.  
Verification of laws of transverse vibration of strings.  
Determination of velocity of sound by resonance.

#### CHEMISTRY.

The course shall include a more detailed study of the matter included in the Matriculation syllabus and in addition the following:—

The laws of chemical combination by weight and by volume. Atomic theory; symbols and their use. Equivalents. Atomic weights. Molecular weights. Avogadro's hypothesis and relation of gas density to molecular weight. Chemical equations and calculations; nomenclature.

A general knowledge of the properties of the elements and of the chief types of their compounds with a view to their classification.

The ordinary methods of preparation, and the chief properties of the following elements and their principal compounds:—hydrogen, oxygen, the halogens, sulphur, nitrogen, phosphorus, arsenic, boron, carbon and silicon.

Chief sources, preparation and properties of the common metals, viz., sodium, potassium (ammonium), silver, mercury, lead, copper, zinc, antimony, bismuth, magnesium, calcium, barium, aluminium, iron, manganese, chromium, tin, and the preparation and properties of their oxides, hydroxides and their salts with the more common negative radicals.

#### NATURAL SCIENCE.

##### (i) Botany.

##### *Intermediate Course—*

- (1) The main external features, mode of life and place, in nature of the following:—Bacteria, Fungi, Algae, Lichens, Mosses, Ferns, and flowering plants.
- (2) The external morphology of the following parts:—root, stem, leaf inflorescence flower, fruit and seed, and the meaning of 'homology' with regard to modifications of these.
- (3) The work of the root, stem, leaf and flower, including the main facts concerning the absorption of food and water, transpiration, respiration, metabolism, the storage of food reserves, growth, reaction to light and gravity, pollination, fertilization, and the germination of seeds. Candidates will be expected to show that they have studied these experimentally in living plants either personally or in class demonstration.

- (4) The nature, occurrence and function of epidermis, root-hairs, stomata, parenchyma, vascular bundles, sieve-tubes, fibres, vessels and cambium, so far as is required to understand the physiology of paragraph 3.
- (5) The principal characteristics of the following orders and tribes as exemplified in South India:—

Anonaceæ, Malvaceæ, Rhamnaceæ, Papilionaceæ, Cæsalpiniaceæ  
Mimosaceæ, Myrtaceæ, Rubiaceæ, Compositæ, Convolvulaceæ  
Acanthaceæ, Labiatae, Euphorbiaceæ, Palmæ, Muscaceæ.

Candidates will not be examined in the use of the microscope, but it is expected that teachers will use the microscope freely for purposes of demonstration.

### *Zoology*

#### 1. *Intermediate—Zoology and Physiology—*

The chief characters of living organisms. Protoplasm. Cell. Plants and Animals, how they agree and how they differ. Meaning of the terms Biology, Morphology and Physiology. The theory of Evolution treated in an elementary manner. The structure of the following animals treated in a very elementary manner with special reference to their physiology—*Amœba*, *Paramecium*, *Obelia*, Earthworm. Outline of their reproduction. A more detailed study of the external characters, and of the general arrangement and relations of the chief internal organs, as revealed by dissection, in the cockroach, the frog and the rabbit. General outline of their life history. External features of a fish e.g., shark (*carcharias*). Life history of a butterfly. All the types mentioned above are to be studied with special reference to their environment.

The Human Skeleton and its parts. The arrangement of the chief viscera in man. The leading facts of human physiology treated in a very elementary way. The nature of food and the manner in which it is digested and absorbed. Glands. The work of the liver. The nature and functions of the blood. The heart and the circulation. Respiration. Waste products and their removal. The temperature of the body and how it is maintained. The action of muscles. The chief functions of the central nervous system, nerves and sensory organs.

Candidates will be expected to be able to make simple diagrams to show the arrangement or general features of the chief organs and structures in the animals enumerated in the syllabus. A practical knowledge of minute structure requiring the use of the microscope will not be required.

### **GEOGRAPHY.**

1. *The Physical basis of Geography—*A general treatment of the following topics:—

- (a) The atmosphere—chief movements of air and water and the resulting types of weather and climate in-

cluding under this insolation and temperature—  
atmospheric pressure and world winds—precipitation  
—storms—local winds.

- (b) The oceans—area and depth—continental shelf and slopes—depths—composition of sea water—origin of salt and distribution of salinity—temperature—movement of the ocean waves and tides—currents—deposits—on the ocean floor—coral reefs and islands.
- (c) The land—materials of the earth's crust and the forces that shape it—agencies of disintegration and reconstruction—process of earth sculpture—rivers and the development of river system—underground water—snow and ice—wind as an agent of transport and deposition—volcanoes—lakes—shore lines—deltas and estuaries.

## II. *General Regional Geography on a World Basis.*—

Structure—climate—vegetation—a study of the major natural regions with reference to prevailing economic conditions—plant and animal life—distribution of population—localisation of industry—transport—trade centres and routes.

## III. *Detailed Study of Eurasia*

Structural features and relief—climate—vegetation—communications and population of Eurasia as a whole and the characteristic geographical features of the S.W. Highlands of Asia. The monsoon regions—mid-Asian deserts—tundra, forests lands and steppe lands of Eurasia—the British Isles—the central plains of Europe—the central highlands of Europe—the Mediterranean region.

## IV. *Practical Work.*

- (a) Shape of the earth—determination of position—angular measurement and latitude—parallels and meridians—Greenwich time and Indian standard time—a study of the simple types of map projection.
- (b) Study and interpretation of Indian ordnance-maps—methods of showing relief.
- (c) Principles of field mapping by plane table, prismatic compass, clinometer—the use of a levelling staff—and aneroid barometer in determining height.
- (d) Collection and tabulation of data—diagrammatic and cartographic methods of expression.

## LOGIC.

Scope of Logic. Laws of Thought. Terms. Formal Division and Definition. Predicables. Propositions and their import. Forms of Immediate Inference.

**Syllogism** and other varieties of **Deductive Reasoning**. **Trains of Reasoning**. **Functions of Syllogism**. **Inductive Inference**. **Postulate of Induction**. **Induction and Analogy**. **The relation of Deduction to Induction**.

**Theory of Scientific Method**. **Observation and Experiment**. **Hypothesis**. **Empirical and Causal laws**. **Forms of Explanation**. **Elimination of Chance**. **Scientific Definition and Classification**. **Nomenclature and Terminology**. **Fallacies**.

### AGRICULTURE

*Theoretical*.—(2 hours a week for 2 years, each year consisting of 32 working weeks—total 128 hours).

*Weather*.—Climate, seasons, monsoons and rainfall, as affecting the growth of crops.

*Soils*.—Origin. Formation. Soils of the Madras Presidency. The proximate constituents, sand, clay, lime and humus. Fertility of the soil as modified by its physical, chemical and biological properties. Water capacity and movement of water in soils. Drainage. Dormant and available plantfood. Retentive power of soils for manurial constituents. \*

*Land Measurement*.—Measurement of land. Laying out of plots. Calculation of areas.

*Tillage and Tillage Implements*.—Necessity for and effects of Tilth, tillage. Tilth, tillage operations in wet and dry lands. Ploughs and ploughing. Wooden and iron ploughs. The parts of a plough and general adjustments. Harrows. Guntakas. Cultivators. Rollers. Tools employed in tillage operations.

*Seeds and Sowing*.—Preparation of land for sowing. Deep and shallow sowing. Broad-casting and drilling. Implements used. Preparation of seed for sowing. Quantity and quality of seed. Selection of seed and seed strains. Germination of seed. Seed-beds. Nurseries. Transplanting.

*Plant Life*.—Plant nutrition as illustrated by the growth of farm crops. Functions of roots, stems, leaves, flowers and seeds. Reproduction from seeds and by vegetative growth. Weeds and their distribution in land. Eradication of weeds. Interculturing. Implements and tools used.

*Irrigation*.—Necessity for water. Sources of water supply. Laying out irrigation channels in the field. Water-lifts.

*Manures and Manuring*.—Necessity for manures. General principles governing the application of manures. Classification of manures. Farm manures, their collection and preservation. **Synthetic Farm Yard Manure**. **Green manuring**, oil-cakes, bone-meal, fish manure. Concentrated and special manures available in South India. Unit values of manures.

*Harvesting*—harvesting, threshing, cleaning and measuring or weighing of produce. Storage of produce. *Marketing*.

*Crops and Cropping*—Rotations and mixed cropping. The chief Cereal, Pulse, Industrial, Fodder, and Garden crops of the Presidency, for instance, the following:—Paddy, cholam, ragi, cumbu, dholl, Bengal gram, sugarcane, cotton, groundnut, castor, gingelly, plantain, tobacco, chillies, gogu, indigo, fodder-cholam sunhemp, sweet-potatoes, brinjals and gourds. Other crops peculiar to the locality.

(A practical working knowledge of the crops is required deduced, as far as possible, from the student's having taken part in all field operations including the preparation of the land, sowing and planting, manuring, irrigating, weeding, harvesting, threshing, and preparation for the market).

Damages caused to crops by insect pests and fungoid diseases. Control measures.

*Farm Animals and Feeding*.—Care and management of cattle. Breeds of cattle. Breeding. Points of a good animal. Common ailments and First-aid treatment. Cattle-foods—roughages and concentrates. Rations for growing animals, working cattle and milch cows. Milk and its general properties.

(*Practical*:—3 hours in the morning, once a week, for 2 years, each year consisting of 32 working weeks—total 64 classes).

Each student should take part in all operations going on in the farm—not merely seeing the work done by coolies—maintain a field book of observations, corrected and testified by the class teacher and the Principal as student's own work. Field books should be produced at the time of the Practical Examination. Not less than 75 per cent. of practical classes should have been attended by each student.

*Examination*—The examination will be both written and practical. The paper to be of 2 hour's duration and to carry 50 marks.

The practical to be of 3 hours' duration, to consist of ploughing and other field operations as well as an oral examination and to carry 50 marks.

The minimum for a pass may be the same as for other optional subjects, i.e., 35 per cent.

## ELECTRICAL ENGINEERING.

### AN ELEMENTARY COURSE IN MECHANICAL ENGINEERING.

1. *Graphics*.—Problems relating to the reduction of a system of forces in two dimensions. Graphical arithmetic, Plotting of curves from given data.



2. *Machine Drawing*.—Ability to copy accurately to scale and supply additional views. The preparation of drawings of simple machines from dimensioned sketches, models or actual parts of machines.

3. *Strength of Materials*.—Mechanical properties of Engineering materials. Stress and strain. Modulus of elasticity. Elastic limit. Ultimate strength. Factor of safety and working strength. Statics and application to structures. Coplanar forces. Application by graphical methods to simple frames with pin-joints such as cranes, etc. Elementary study of beams. Bending moment and shearing force. Sections in iron, steel and wood. Struts and columns. Formulae of Gordon and Euler. Simple shear and torsion. Strength of shafts. Potential and Kinetic energy. Centrifugal force.

4. *Materials*.—Characteristics of cast iron, wrought iron and steel. Ordinary forms of wrought iron and steel. Working strength of these materials in compression, tension and shear. Characteristics of copper, brass, gun-metal and aluminium

5. *Shafting and bearing*.—Forms of shafts and shaft couplings; clutches, universal joints, arrangement of simple pedestals and footstep bearings. Materials for belts. Forms of ordinary spur and bevil wheels and their velocity ratios.

#### ELECTRICAL ENGINEERING.

6. *General Principles*.—Electro-magnetic and C.G.S. systems of units; Principle of Electro-magnetic Induction; practical system of electric units; Electro-magnets; Eddy currents; Production of alternating currents; Commutation; Alternating e.m.f. and current R.M.S. values; Frequency; Power; Power factor; Polyphase currents; Capacity, Inductance and Impedance. Star and mesh connections.

7. *Measurements*.—The Principles and use of instruments ordinarily employed.

8. *Generators*.—Continuous current generator (Shunt, Series, Compound); Alternators; transformers; their characteristics and methods of testing, efficiency and voltage regulation. Transformers and their uses.

9. *Motors*.—Continuous current motors (Shunt, series and compound); induction motors, Synchronous motors; their characteristics and uses. Methods of starting.

10. *Batteries*.—Construction and management of primary and secondary batteries, their practical applications.

11. *Distribution*.—Methods of distributing electric power in streets, overhead and underground mains. Calculation of Conductor Sizes.

12. *Illumination*.—Candle power, use of shades,

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## MECHANICAL ENGINEERING.

*Graphics.*—Problems relating to the reduction of a system of forces in two dimensions. Plotting of curves from given data.

*Machine Drawing.*—Ability to copy accurately to scale and supply additional views. The preparation of drawings of simple machines from dimensioned sketches, models or actual parts of machines.

*Strength of Materials.*—Mechanical properties of Engineering materials, Stress and strain. Modulus of elasticity. Elastic limit. Ultimate strength, Factor of safety and working strength. Statics and application to structures. Coplanar forces. Application by graphical methods to simple frames with pin-joints such as cranes, etc. Elementary study of beams. Bending moment and shearing force. Sections in iron, steel and wood. Struts and columns. Formulae of Gordon and Euler. Simple shear and torsion. Strength of shafts. Principle of work. Potential and Kinetic energy. Centrifugal force.

*Heat Engines.*—Properties of steam, sensible and latent heats. Dry saturated and superheated steam. Boiling point of liquids. Relation between temperature and pressure of steam. Laws of perfect gases. Curves of volumes and pressures. Theoretical diagram of work and estimates of mean pressure. Work done in cylinder. Efficiency.

*Steam engines.*—Modern type of land, marine and locomotive engines. High speed engines. Uniflow engines and steam turbines, description and working.

*Internal combustion engines.*—Modern engines. Modern engine cycles and their applications. Types of engines with reference to available fuel such as petrol, kerosine oil, crude oil and gas (suction and pressure).

*Fuels.*—Characteristic properties of common fuels.

*Boilers.*—Description and working of common types of Boilers and their accessories.

*Materials.*—Characteristics of cast iron, wrought iron and steel. Ordinary forms of wrought iron and steel. Working strength of these materials in compression, tension and shear. Characteristics of copper, brass, gun metal and aluminium.

*Connexions.*—Forms and proportions of rivets and arrangements of rivets in lap and butt joints, single and double rivetted. Pitch of rivets. Treatment of three or four overlapping plates. Junction of plates by angle and T-irons. Forms and proportions of bolts and nuts. Flange joints; different forms of screw-threads; lock nuts; key and cotter fastenings.

**Shafting and bearings.**—Shafts and shaft couplings; clutches, universal joints; arrangement of simple pedestals and footstep bearings; methods of lubricating bearings.

**Belt and toothed gearing.**—Forms of belt pulleys. Velocity ratio of a pair of pulleys. Stepped speed cones. Tension of belts, joints of belting. Materials for belts. Forms of ordinary spur and bevil wheels and their velocity ratios.

**Engine details.**—Usual forms of cranks and levels. Methods of fixing crank pins. Forms of eccentrics. Ordinary arrangement of connecting rods, cross heads and coupling rods. Forms of cylinders, flanges and covers, simple forms of pistons and methods of packing, attachment of piston rods. Simple forms of stuffing box and gland. Construction of simple slide valve.

**Electrical-Engineering.**—Two hours per week may be allotted for lectures and 2 hours for practical work in an Electrical Laboratory. An Electrical Laboratory is necessary.

**Mechanical-Engineering.**—Two hours per week may be allotted to lectures and 2 hours for practice in a small workshop which should be provided.

(Details for Electrical Laboratory and Workshop can be drawn up after syllabuses are adopted.)

The range covered by the syllabuses for Mechanical and Electrical Engineering is necessarily wide, and the instruction portions thereof can only be general and descriptive. It will be possible to be more specific in the syllabus only when experience is gained after introduction of these courses.

## SURVEYING.

**Chain, Prismatic Compass and Plane Table.**—Running a chain line; measuring offsets; use of the cross staff; optical square; survey of areas with chain only; well conditioned triangles, check or tie lines; keeping the field book; testing the chain; modes of passing obstacles; chaining across a river or other obstacle; survey of areas with Prismatic compass; keeping the field book; plotting surveys made with chain and compass; survey of areas with plane tables; inaccessible points; filling in a survey; finding one's place in a survey.

**Setting out.**—Ranging straight lines by eye. Laying out curves by chords and offsets.

**Level.**—Permanent and temporary adjustments; levelling field book, two methods of reducing the field book; levelling; contouring; cross section; correction for curvature of the earth and refraction; check levels; bench marks; use of Abneys level; clinometer and Ghaut tracer; setting out gradient for railways, canals and sewers.

*Theodolite.*—Use and adjustments of Theodolites; traversing; Gale's system; setting out straight line and curves.

*Drawing and Mensuration.*—Use of drawing instruments, construction of scales; conventional signs; estimation of areas; use of Planimeter and Pantagraph; plotting lines of levels and taking out quantities of earth-work; copying plans to different scales by squares; representation of ground by contours; section on contoured plans; location of roads and railways on contoured plans showing cuttings and embankments; estimation of areas and volumes; reduction and plotting of a theodolite traverse.

*Surveying.*—Four hours per week for two years will be adequate for covering the syllabus. One hour each week may be devoted to lecturing and 3 hours for outdoor practice. For every 12 students, one set of instruments may be provided.

#### ARCHITECTURE.

1. General Survey and History of Architecture:—  
Egyptian, Greek, Roman, Byzantine, Gothic, Indian, Eastern, Modern.
2. Materials of Construction, and limitations imposed by them—Wood, Stone, brick, concrete, terra cotta, steel, mortars.
3. Styles of Architecture:—Main points of difference and evolution.
4. Indian styles and their chief characteristics.—Cave Architecture, Jain, Buddhist, Dravidian, Pallava, Chalukyan, Vijianagar, Saracenic, combinations of styles.
5. General principles of designs:—Temple architecture, Architecture of Public Buildings. Indian Domestic Architecture—Huts, Contiguous houses with court-yard, bungalow or garden houses, palaces. Influence of climate, rainfall, geographical position, etc.
6. Details and Ornamentation—Orders, Pillars, Bases and Capitals, Doors and Windows, Friezes, Mouldings, Ceilings, Roofs, Facades, Floors.
7. Drawing—Geometrical Drawing, Figure Drawings, perspective, making sketches from objects, shading.

*Note.*—There shall be two papers of two hours duration each.

#### DRAWING.

Time available: 4 hours per week for 2 years (20 months).

The course shall consist of two branches—

- A. Practical Drawing and Painting.
- B. History, Theory and Appreciation of Art.

**A. i Still Life.**

- ii Objects in relief for appreciation of light and shade.
- iii. The Human figure in repose.
- iv. The Human figure in action.

The examination will be of 5 hours—i. Still life in colour; ii. Object in relief, etc., monochrome; The human figure in (iii) repose and (iv) action, both in monochrome.

**B. i. The laws of perspective.**

- ii. History of (a) Indian and (b) European art.
- iii. Theory and appreciation of Art, with special reference to
  - (a) Aganta Frescoes, Mogul Art and Modern Indian Art.
  - (b) Italian, Dutch and Modern European Schools up to the end of the XIX century.

This course requires the study of a large number of reproductions (in colour) of pictures.

*Note.*—There shall be two examinations, one a written examination of 2 hours, and the other a practical examination.

**INDIAN MUSIC.***Theory of Music.*

(1) Theory—musical sounds and intervals, including laws of vibrations of strings and air columns. Harmonics and upper partial tones. Pitch intensity, Timbre and Voice Registers (Stayi). Swaras 7 and 12, and their names. Consonant and Dissonant Notes—Vadi, Vivadi and Samvadi.

**(2) Raga and Tala.**

Definition of Raga.

Raga classifications in Carnatic Music.

Definition of Tala.

The Tala system of Carnatic Music. The Theory of 35 Talas.

(3) *Musical Composition.*—The characteristics of different types of musical composition. viz., Gitas, Varnas, Ragamalikas, Kirtanams, padams, Chindus.

Principles of Carnatic notation (Sa, re, ga, ma, etc.).

(4) *History of South Indian Music.*—Biographies of the following South Indian Musicians and composers and their contribution to Carnatic Music.

Venkatamakhi, Kshetrajnulu, Dikshitar, Tyagaraja, Shyama Shastri, Pattanam Subrahmanya Ayyar, Arunachala Kavirayar and Gopala Krishna Bharati.

(5) (a) A knowledge of the following 20 ragas and of at least one musical compilation in each: Todi, Bhairavi, Sankarabharanam, Kalyani, Kambhoji, Saveri, Mohanam, Mukhari, Ketaragaulam, Arabhi, Sriragam, Bilahari, Yadukulakambhoji; Ananda Bhairavi and Nadanamakriya.

(b) A knowledge of one raga out of each of the following five groups of four ragas each—

1. Karaharapriya, Sriranjani, Ritigaula and Abheri.
2. Atana, Kedaram, Pyagadal and Hamsadhvani.
3. Sahana, Natakuranji, Harikambhoji and Kuntalavarali.
4. Pantuvarali, Bhurikalyani, Ramapriya and Saranga.
5. Chakravakam, Asaveri, Vasanta and Dhanyasi.

There shall be one theory paper of 3 hours' duration (60 marks) and a practical examination—(40 marks.)

There shall be a practical examination in either oral or instrumental music and a separate minimum of 30 per cent, will be required in the practical examination. As regards instrumental music, candidates will have the choice of playing on any of the following instruments: Veena, Violin and Flute.

In the practical examination, candidates will be expected to sing or play any of the 20 ragas prescribed as well as compositions in any one of the following Talas:—

Adi, Rupaka, Tripura and Chapu.

## WESTERN MUSIC.

### I. Theory

1. *Notation*.—The staff Leger Lines, Treble and Bass Clefs Accidentals; Formation of the Major and Minor Scales (both forms of the latter); Key-signatures; Chromatic Scales.
2. *Time*.—Relative duration of sounds; Notes; Rests; Dots; Ties, Staccato-marks; the Pause; Regular and Irregular Grouping of notes; Syncopation; Adding Time-Signature and Bar-lines to a given Melody; Completing a Bar by the addition of Rests or Notes.
3. *Transposition and Terms*.—Transposition of a simple example from Clef to Clef (G. C. and F), from Key to Key and from short to open score, or *vice versa*. Knowledge of necessary terms for the writing of Chords, and for Part-writing. Naming the key of a given passage and supplying the key-signature.

4. *Intervals*.—Diatonic and Chromatic, simple and compound, direct and inverted. Figuring the Bass of a simple example of Harmony up to and including Chords of the 7th and their Inversions.
  5. *Harmony*.—Simple exercises on Triads and their inversions, the Dominant 7th and its Inversions and Resolutions. The construction and designation of Cadences.
  6. *Melodic Analysis*.—The analysis of a simple eight-bar Melodic sentence into "fore" and "after" phrases and sections.
  7. Italian Terms, ornaments and Embellishments.
- Text Books*.—Rudiments of Music by Stewart Macpherson. Trinity College. Intermediate Text-book by C. W. Pearce.

## II. *Viva Voce and Ear Tests.*

1. Rhythm and Time. To hum or tap a rhythmical passage played on the Pianfortes by the Examiner and state the time.
2. To recognise major and minor common chords and their inversions played in four-part Harmony.
3. To recognise Cadences.
4. To name five notes of a Diatonic Major scale played in any order.
5. To name five notes of a Diatonic Minor scale played in any order.
6. To answer questions on—Scales, Major and Minor.  
intervals,  
accent,  
on marks of expression.

## III. *Instrumental*

1. Finger Exercises,
2. Scales,
3. Studies (to be prescribed from year to year).
4. Pieces (to be prescribed from year to year),

Books: Trinity College of Music Publications,  
'First Steps' Pianoforte Examination,  
'First Steps' Violin Examination.

Two hours each week may be devoted to theory, and two hours for practice.

There shall be one theory paper of three hours' duration and a practical examination (*viva voce* and instrumental).

# INTERMEDIATE EXAMINATION IN ARTS AND SCIENCE

Under the remodelled Scheme

1929

## ENGLISH

### PART I.

*For Detailed Study—*

Shakespeare: Henry V.

Wordsworth: Loadamia.

Byron: The Isles of Greece.

Tennyson: Lotus Eaters and Enone.

*Prose—*

Goldsmith's Essays Nos. 1, 2, 6, 11; 12, 14, 16, 24, 27; 30, 33  
and 40 in the Selections edited by A. L. Sleight, M.A.  
(Harrap & Co.).

- Note.*—No. 1. In Westminster Abbey.  
 „ 2. A visit to the Theatre.  
 „ 6. Describes an Author's Club.  
 „ 11. Introduces Beau Tibbs.  
 „ 12. Mrs. Tibbs and her Household.  
 „ 14. A Party at Vauxhall Gardens.  
 „ 16. Beau Tibbs and the Coronation.  
 „ 24. The Character of the English Nation.  
 „ 27. On Doctors.  
 „ 30. On little great men.  
 „ 33. Specimen of a Magazine in miniature.  
 „ 40. Adventures of a Strolling Player.

Mrs. Gaskell's Cranford.

*Non-detailed Study—*

Scott: Quentin Durward—the whole book.

A second Round of Tales, Oxford University Press, 1926.



## SANSKRIT

1929

### PART II.

Bharavi: Kīratarjuniya Cantos 1, 2 and 3.

Saktibhadra—Ascarya-cudamani—to be had of the Proprietor, Balamanorama Press, Mylapore, Madras

Harsacaritasamgraha (whole)—to be had of Pandit R. V. Krishnāmacharyar, Sanskrit Pandit, Government College Kumbakonam.

### PART III-B.

The same as for Part II.

## MARATHI

1929

### PART II.

*For Non-detailed Study—*

1. Vāyikar Bhatji by Dhanurdhārī.
2. Paropakar by D. K. Karve, B.A.

*Two hours paper for Detailed study—*

1. Kekāvali by Moropant.
2. Navanīta: all extracts of Wāman Pandit.
3. Uttar Rāma Charitra by Parshurām Pant Godbole.
4. Shil Āni Nītimattā by Kīlledar, B.A., LL.B.
5. Moropantāchi Kavītā by V. K. Chiplunkar, B.A.

All the above books can be had from Messrs. Parachure Puranik & Co., "Mādhav Bāg", Bombay.

### PART III-B.

1. Navanīta—Dronaparva and Karnaparva by Moropant.
2. Vīdvatva and Kavītva by V. K. Chiplunkar, B.A.
3. Tratikā Nātak by Vāsudev Rau Kelkar, B.A.

All the above books can be had from Messrs. Parachure Puranik & Co., 'Madhav Bag', Bombay.

## ORIYA

1929

### PART II.

*For Non-detailed Study—*

- Jalayātra by Virupīkṣa Kar.  
Bāravāte Durga by Kṛpāsindhu Mīśra.

*Two hours paper for Detailed Study—*

*Poetry—*

**Tapaswini** by G. Meher.

*Prose—*

**Bal Mahanidh Panjee** by Gopal Chandrapraharaj.

**Kṛṣṇa Katha**, pages 53—71, by Upendranath Pradhan.

*Drama—*

**Vikramorvashee** by Mr̥tyunjaya Rath.

All the above books can be had from "The Mukur Press, Cuttack" or from "The Trading Company, Cuttack" or from "The Students' Stores, Berhampore (Ganjam District)."

### **PART III-B.**

**1. Bhuvaneswara** by Chin̥āmoni Āchārya

**2. Pravandhapāth** by Mr̥tyunjaya Rath.

**3. Indumatī** by G. Meher.

All the above books can be had from "The Mukur Press, Cuttack" or from "The Trading Company, Cuttack" or from "The Students' Stores, Berhampore (Ganjam District)."

## **LATIN**

**1929**

### **PART II.**

**Virgil: Aeneid-Book VI.**

**Cicero: Second Philippic.**

**Sallust: Jugurtha** (Chapters 1—62).

### **PART III-B.**

**The same as for Part II.**

## **FRENCH**

**1929**

### **PART II.**

**Erckmann-Chatrian: Waterloo** (Macmillan).

**Lamartine: Jeanne D'Arc.**

**Racine: Athalie.**

**X de Maistre: Voyage autour de ma Chambre.**

### **PART III-B.**

**The same as for Part II.**

**ARABIC**

1929

**PART II.**

Al-Qur'ātur Rashida, Part III.  
Kitābus-Sarf and Kitābun-Nahv.

**PART III-B.**

Humātul-Islam; Part I.  
Azharul-Arab.

**PERSIAN**

1929

**PART I\***

Fārsi Ki Dūsrī and Tisrī—by Anjuman-i-Himāyat-i-Islam  
Dastūr-i-Fārsi, Parts I and II.

**PART III-B.**

Rahnumā-i-Pisrān.  
Khazīna-i-Dānish, Part II.

**URDU**

1929

**PART II.**

Nayrang-i-Khiyāl, Part 1.  
Qari-i-wayran.  
Jam'ul-Qwanin by Canon Sell.  
Sanjūg.

**PART III-B.**

Tārīkhul-ummat, Part II.  
Nazmi-Azād.  
Intikhab-i-Makhzan, Part III.

All the above books are available from the Manager, Islamiah  
Book Depot, Kurnool.

**TAMIL**

1929

**PART II.**

*2 Hours paper—*

*Poetry—*

Selections published by the University.

*Prose—*

1. Appar Charitram by K. Subrahmanya Pillai, M.A., M.L.  
Can be had of Saiva Siddhanta Publishing House, Linga  
Chetty Street, G.T., Madras.
2. Nakkirar by Venkataswami Nattar.

*3 hours paper—*

1. Janavinodini (Revised edition of Part I, No. XIII), by  
C. R. Namasivaya Mudaliyar. Can be had of Messrs.  
C. Coomarasawmi Naidu and Sons, G. T. Madras.
2. Dakshina Charitra Veerar by A. Madhaviah.

*Poetry—*

PART III-B.

1. Needinerivilakkam.
2. Harichandrapuranam.
3. Pattinatharpadal.
4. Thondamandala Sathagam.
5. Pandimandala Sathagam.
6. Sholamandala Sathagam.
7. Kongumandala Sathagam.

Selections published by  
the University.

*Prose—*

1. Janavinodini, (Revised edition of Part I, No. XIII), by  
C. R. Namasivaya Mudaliyar.
2. Dakshina Charitra Veerar, by A. Madhaviah, Mylapore,  
Madras.

TELUGU

1929

PART II.

DETAILED.

*Poetry—*

- (1) Intermediate Selections in Telugu published by the  
University.

Selections.—No. 25 Uttaragograhamam verses 1—261.

No. 32 Samantakopakhyanam.

No. 49 Hamsadutyamu.

No. 58 Pravaruni Katha.

*Drama—*

Malavikagnimitramu by K. Veeresalingam Pantulu.

*Prose—*

Kathasaritsagaram by V. Venkataraya Sastri, 200 pages, Part I.

No books are prescribed for grammar or poetics. The matter is left to the Pandits.

*Non-Detailed.*

1. Ichinikumari by Ketavarapu Venkata Sastri.
2. Jadabharatudu by Sreemati Pulugurta Narasamamba.
3. Vijayanagarasamrajyam by Duggirala Raghavachandra Choudry.

PART III-B.

The standard demanded under this group shall be the same as that demanded for Part II.

**KANARESE**

1929

PART II.

*For Detailed Study—*

- (i) Selections published by the University—Nitimanjari, Part II, Stanzas 101—200 (pp. 311 to 325) and Bhagawata—Stanzas 1—200 (pp. 376 to 412).
- (ii) Srimathi Parinayam (2nd Edition)—by Pandit M. D. Alasingarachar (to be had of R. Venkateswar and Co., Loane Square, George Town. Madras).

*For Non-detailed Study—*

- (iii) Raghunatha Simha by M. T. Vallabhiengar (Sati Hitaishini Granthamala Office, Nanjangud).
- (iv) Raghuvamsa Sara Sangraha.—by I. Sivaramayya (Kanarese Pandit, Board High School, Coondapur.)

PART III-B.

- (i) Torave Ramayana—Sundara Kanda—Chapters 1, 2 and 3 (M. S. Rao & Co., Avenue Road, Bangalore City).
- (ii) Samyaktva Koumudi by Mangarasa—Chapters 1, 2 and 3 (Mahavir Press, Belgaum).
- (iii) Yadunripa Vijaya by H. Lingaraj Urs (Palace Muzrai Bakshi, Mysore).
- (iv) Jaya-chandra by Pandit Narasimhaiya (M. S. Rao & Co., Avenue Road, Bangalore City).

## MALAYALAM

1929

### PART II.

The following two books are selected for non-detailed study for the essay:—

- (a) *Shivaji* by K. Vasudevan Moosad. Publishers—Jnana-sagaram Book Depot, Trichur.
- (b) *Manimala* by C. Achyuta Menon, B.A. Publishers—Vidya-vinodini Press, Trichur.

#### *Detailed Study—*

##### *Poetry—*

- (a) *Kiratham Thullal* by Kunjan Nambiar, Available at all publishers.
- (b) *Aniruddhan* by Vallathol Narayana Menon. A. R. P. Press, Kunnamkulam.
- (c) *Pancharatram* (drama) by Vallathol Narayana Menon, A. R. P. Press, Kunnamkulam.

##### *Prose—*

- (a) *Sarada*, Part I by O. Chandu Menon, Published by K. Madhava Menon, High Court Vakil, Chalappuram, Calicut.
- (b) *Mangalamala*, Part II. by Appan Thampuran, Mangalodayam Press, Trichur.

##### *Grammar—*

No text-book has been prescribed.

### PART III-B.

##### *Poetry—*

- (a) *Vidura Vakyam*—by Ezhuthachan—*Mahabharatam*. Selections published by the University (Intermediate), pp. 71 and 83.
- (b) *Kartha Veeryarjuna Vijayam*—*Thullal*—by Kunjan Nambiar, V. V. Press, Quilon.
- (c) *Karuna*—by Kumaran Asan. Published by Mrs. N. Kumaran Asan, Thonnakkal, Trivandrum.

##### *Prose—*

*Premanguleeyakam*—by Pandit A. Krishna Menon. Mangalodayam Press, Trichur.

## PHYSICS AND CHEMISTRY

1929

PART III

GROUP (A).

### **Physics :**

Rintoul, D: Introduction to Practical Physics (Macmillan).

Watson, W: Elementary Practical Physics (Longmans).

Schuster and Lees: Intermediate Course of Practical Physics (Macmillan).

Crowther, J. A: Manual of Physics (Oxford University Press).

Glazebrook: Hydrostatics, Light and Heat (Cambridge University Press).

Hadley: Magnetism and Electricity for Beginners (Macmillan).

Sanderson: Electricity and Magnetism (Macmillan).

Houston's Intermediate Light.

Shackel: Modern School Electricity and Magnetism.

### *Reference—*

Duncan and Starling: Text-book of Physics (Macmillan).

Brown, S. E: Sound (Cambridge University Press).

Krishnaswami, T. S.: Sound (Murthi Brothers).

### *Chemistry—*

Smith: Experimental Inorganic Chemistry (Bell).

Senter: Text book of Inorganic Chemistry.

### *Reference—*

Smith: Introduction to Inorganic Chemistry (Bell).

Holmyard, E. J.: Inorganic Chemistry (Edward Arnold).

## NATURAL SCIENCE

1929

PART III

GROUP (A).

### **Botany**

### *Books for reference—*

Thoday: Botany for Senior Students (Cambridge University Press),

P. F. Fyson: Botany for India.

K. Rangachari: Manual of Elementary Botany for India.

K. Rangachari: A handbook of Botany for India.

Dickson: Practical Plant Biology.

Tansley, A. G.: Elementary Biology.

Gager: Fundamentals of Botany.

### **Zoology and Physiology**

G. C. Bourne: Comparative Anatomy of Animals, two volumes. (G. Bell & Sons).

Huxley (revised by Barcroft): Lessons in Elementary Physiology.

Bainbridge and Menzies; Essentials of Physiology (Longmans Green & Co.)

Parker and Bhatia: An Elementary Text-book of Zoology for Indian Students. (Macmillan).

## **GEOGRAPHY**

1929

### **PART III**

#### **GROUP (A).**

The following text-books are recommended to indicate the standard of work required.

General and Regional Geography—Unstead and Taylor, (George Philip and Son).

Regional Geography Book IV—The World—L. Brooks (University of London Press).

The Indian Empire—Dudley Stamp (Longmans & Co.)  
Text-book of Geography—A. W. Andrews (Edward Arnold & Co.)

Economic Geography of the British Empire—C. B. Thurston (University of London Press.)

A Geography of Asia—J. Martin (Macmillan & Co.)

A Geography of Europe—T. A. Smith (Macmillan & Co.)

Physiographical Introduction—A. J. Herbertson (Oxford University Press.)

Physical Geography—P. Lake (Cambridge University Press)  
—can be obtained from Messrs. Macmillan & Co.)



Maps and Survey—A. R. Hinks (Cambridge University Press.)

A little book of map projection—W. Garnett (George Philip & Son).

Oxford Advanced Atlas (Oxford University Press).

## LOGIC

1929

### PART III.

GROUP (B).

Creighton's Introductory Logic, Parts I and II.

## HISTORIES

1929

### PART III

GROUP (B).

*Indian History.*—General Outlines of Indian History, the scope being indicated by Messrs. Longmans' Series of three books:—(1) Hindu India by Mr. K. V. Rangaswami Ayyangar, (2) Muhammadan India by Messrs. H. L. O. Garrett and Sitaram Kohli, and (3) British India by Mr. Rushbrook Williams.

*Ancient History.*—Outlines of the History of Greece and Rome, the scope indicated by the Tutorial History of Greece and Myres's History of Rome.

*Modern History.*—General Outlines of Political, Constitutional and Industrial History, the scope indicated by Mowat's History of England, Oxford University Press.

## ELECTRICAL ENGINEERING: MECHANICAL ENGINEERING: SURVEYING.

1929

### PART III

GROUP (C).

*Text-books.*—To indicate the scope and standard, the following text-books are suggested for the present:—

*Electrical Engineering—Mechanical Engineering.*

Applied Mechanics—Cryer and Jordan,

Machine Design—Frank Castle.

Mechanics for Engineers—Morley (advanced portions to be omitted.)

Steam (Elementary)—Ripper.

Steam Engines—Holmes.

Electrical Engineering—Principles of Direct Current Electrical Engineering—Barr.

Electrical Engineering—Gray.

*Surveying.*

Methods of Surveying by N. F. Mackenzie.

1930

## ENGLISH PART I.

*For Detailed Study—*

Shakespeare: Henry V.

Byron: Mazeppa's Ride

Sir Edwin Arnold: The Rajput Nurse.

W. C. Monkhouse: The Night Express.

William Cory: A Ballad for a Boy.

(From Poems of Action, Second Series, edited by Collins and Treble, Oxford, 1926).

*Prose—*

A Shorter Boswell: edited by John Bailey. (Thomas Nelson & Sons, Ltd.)

English Essays: Edited by Elizabeth D'Oyley. (Edward Arnold & Co.) (omitting the Essays of Lamb and Hazlitt, the selection from "The Times" in Section V., A. H. Stogewick in Section VI, and the last four Essays in Section VII).

*Non-detailed Study—*

R. L. Stevenson: The Treasure Island.

The Roll Call of Honour by "Q" (Thomas Nelson & Sons.)

Rudyard Kipling: The Second Jungle Book. (Macmillan).

## SANSKRIT

1930

### PARTS II & III-B.

Bhāravi-Kīrtarjuniya cantos 1, 2, and 3.

Śaktibhadra—Āścaryacūḍamani—to be had of the Proprietor, Balamanōram Press, Mylapore, Madras.

Harsacaritasamgraha, Uucchvāsas \* 3, 4, 5, and 6—to be had of Pandit R. V. Krishnamachariar, Sanskrit Pandit, Government College, Kumbakonam

\* Subject to approval by the Academic Council.

**MARATHI**

1930

PARTS II &amp; III-B.

The same as for 1929.

**ORIYA**

1930

PARTS II &amp; III-B.

The same as for 1929.

**LATIN**

1930

PARTS II &amp; III-B.

The same as for 1929.

**FRENCH**

1930

PARTS II &amp; III-B.

Lamartine: Jeanne D'Arc.

Racine: Britannicus.

Molière: L'Avare.

Erckmann-Chatrian: Waterloo (Macmillan).

**GERMAN.**

PARTS II &amp; III-B.

1930.

Schiller—Wilhelm Tell.

Moderne Erzählende Prosa, Zweites Bändchen,  
(Deutsche Prosa, IV Teil), published by Velhagen and  
Klasing, Bielefeld and Leipzig.

**ARABIC**

1930

**PART II.**

At-Taríqat-ul-Mubtakirah—Part 5.

Kitābus—Sarf and Kitābun-Nahv.

**PART III-B.**

Al-Fakhri, part 2—The History of the Caliphate  
Qasidat-ul-Burdah.

**PERSIAN**

1930

**PART II.**

Ganjtnai-Adabi Farsi by Jaafari.  
Dasturi Farsi—Parts 1 and 2.

**PART III-B.**

Akhlâq-i-Muhsini, 1st 30 Chapters.  
Bustân—till the end of the 1st Chapter.

**URDU**

1930

**PART II.**

Al-Mamûn by Shibli.  
Jazâbat-i-Fitrat, part I.  
Asâs-i-Urdu by Ja'fari.  
Bibak-i-Khurrami by Sharar.

**PART III-B.**

Nayrang-i-Khiyâl by Azad Part I.  
Intikhâb-i-Zarrin.  
Tarikhul-Ummat Part III.

**TAMIL**

1930

**PART II.**

**2 Hours: Poetry—**

Tirukkural—Chapters 1, 4, 6, 7 and 8—50 Stanzas.  
Cilappadikaram—*Padikam*—90 lines.  
Baratavenba—Vasudevan Tutu—132 Stanzas.  
Kambaramayanam—Sundarakandam — Chudamanippadalam  
—50 Stanzas.  
Tiruvēkatattantadi—Last 50 Stanzas.  
Erelupadu—70 Stanzas.

*Prose—*

Nallisaipulavar by Karmegakone, Madura.

Drama—Leelavati Sulochana by Rao Bahadur P. Sambanda  
Mudaliyar, B.A., B.L., Madras.

*3 Hours. Prose—*

1. Virapatni by Subbiah Pillai, Alangadu, Muttupet, Tanjore district.

2. Janavinodini, No. XIX, Part II by Mr. C. R. Namasivaya  
Mudaliyar.

PART III-B.

The same as for 1929.

TELUGU

1930

PART II.

*Intermediate Selections published by the University.*

Number.		Number of verses.
10	Ekalavyuni Vrithanthamu	.. 15
12	Arjunudu Guru Dakshinarthambu Drupa- dimni Batti Theekuta	.. 29
13	Laksha Griha Thahanamu	.. 84
28	Ravanudu Karthaviryunitho Boradi Chera- baduta	.. 53
31	Yaksha Prasnalu	.. 91
40	Parasurama Garva Bhangamu	.. 32
50	Vyasuda Thanu Kasi Basina Karanambu Chepputa	.. 77
Total number of verses prescribed ..		381

*Modern Poetry—*

Vasantasena, by Kallikuri Gopala Rao—an original Poem in  
Telugu on the lines of Goldsmith's 'Hermit'.

*Drama—*

Ratnavali—K. Veerasalingam Pantulu, Hitha Karini Samaj.

*Prose—*

Karna Charitamu by Vajjala Chinna Sitharama Sastrulu,  
V. Ramaswami Sastrulu & Sons.

Katha Sarith Sagaramu—100 pages-538 to 639, sakesolam-  
bakamu.

*Set Books for Non-detailed Study—*

1. Lakshmana Roya Vyasavali—Vignana Chandrika Series  
Office, Bezwada.
2. Somanatha Vijayamu (prescribed for subject-matter and  
not as model of composition).
3. Praya Swamika Prabhuthwamu, Prachina Hindava, by  
D. L. Narasimham, M.A., L.T.—Jatiga Saraswati  
Nilayam, Anantapur, Rajahmundry.

**PART III-B.**

Text-books prescribed—

*Poetry—*

1. University Intermediate Selections (the same as for  
Telugu as Second Language.)  
(Vasantasena is not to be offered).

*Prose—*

Karna Charithramu only.

(Katha Sarith Sagaramu, not to be prescribed).

*Set-books for Non-detailed Study—*

1. Somanatha Vijayamu (for subject-matter).
2. Lakshmana Roya Vyasavali.

**KANARESE**

**1930**

**PART II.**

*For detailed Study—*

- (i) Selections published by the University—Jaimini  
Bharata (pp. 1—35) and Pancha Tantra (pp. 455 to  
471).
- (ii) Vidyaranya vijaya nataka by D. V. Gundappa (Basa-  
vangudi, Bangalore).

*For Non-detailed Study—*

- (iii) Aryakirti, Part II (Sivaji) by C. Vasudevaiya (M. S.  
Rao & Co., Avenue Road, Bangalore City).
- (iv) Muttina Sara, 1st Part by M. Venkatadri Sastri (M.  
S. Rao & Co., Avenue Road, Bangalore City).

**PART III-B.**

- (i) Selections published by the University—Virata Parva  
(pp. 81 to 155).
- (ii) Raichur Vijaya by B. Krishnappa, M.A. (139, Nara-  
yana Sastri Road, Mysore).

## MALAYĀLAM

1930

### PART II.

*For the 1st paper of 3 hours' duration.*

1. Chitrasala—by Kunnath Janardana Menon (K. K. Thampan, Pulapetta, South Malabar).

2. Bharateeya Vanithadarsangal, 173 pages, by Mr. and Mrs. T. K. Krishna Menon (Ramanuja Printing House, Trichur).

*For the 2nd paper of 2 hours' duration*

#### *Poetry—*

1. Ramayanam—Sundarakandam—by Ezuthachan.

2. Kiranavali—Pieces 2 to 8 both inclusive and 15— by Ulloor S. Parameswara Ayyar, M.A., B.L. (B. V. Book Depot, Trivandrum).

2. Chārudathan—Drama—by A. K. Raja Raja Varma, M.A. (B.V. Book Depot, Trivandrum).

#### *Prose—*

1. Aithiyamala Part II, by Kottarathil Sankunni—Publisher, Vellaikal Narayana Menon (Lakshmi Bhai Office, Trichur).

2. Vilasakumari, by Pallath Raman—Manager, Kohinoor Series, Ponani, S. Malabar.

### PART III-B.

#### *Poetry—*

1. Pathinnalu Vritham—Vrithams 3 and 4—Selections published by the University, pages 259 to 268.

2. Kusalavōpakhyānam—by Porayannur Bashkaran Namboodiripad (Mangalodayam Press, Trichur).

3. Kavikatha—by C. N. Anantaramayya Sastri, M.A. B. V. Book Depot, Trivandrum).

## PHYSICS AND CHEMISTRY

1930

### PART III—GROUP (A).

The same as for 1929.

## NATURAL SCIENCE

### BOTANY

1930

### PART III—GROUP (A).

The same as for 1929.

## ZOOLOGY AND PHYSIOLOGY

PART III—GROUP A.

1930

The same as for 1929, with the addition of the following books:—

- (1) Introduction to Zoology—Hegner (Macmillan & Co., New York.)
- (2) Zoology for Medical Students by Borradaile.
- (3) Elementary Physiology by Foster and Shore.

## GEOGRAPHY

1930

PART III—GROUP (A).

The same as for 1929.

## LOGIC

1930

PART III—GROUP (B).

The same as for 1929.

## ANCIENT HISTORY

1930

PART III—GROUP (B)

The following books are recommended as indicating the scope in Greek and Roman History—

- I. Bury's History of Greece.  
History of Greece, Tutorial series.
- II. (1) History of Rome—Tutorial Series.  
(2) Shuckburgh's History of Rome.  
(3) Pelham's History of Rome.

N. B.—In regard to the two works. Bury's History of Greece and Shuckburgh's History of Rome, the bigger books are intended.

## MODERN HISTORY

1930

The same as for 1929.

## INDIAN HISTORY

1930

The same as for 1929.



# **ELECTRICAL ENGINEERING ; MECHANICAL ENGINEERING ; SURVEYING**

1930.

PART III—GROUP (C)

The same as for 1929.

## **ENGLISH.**

1931

**Shakespeare: *Twelfth Night*—***Poetry—*M. Baring: *In Memoriam*, A. H. (200).J. Grenfell: *Into Battle*. (46).Lord Byron: *Waterloo*. (64).W. W. Gibson: *Flannan Isle*. (110).R. Kipling: *Recessional*. (30).Milton: *Il Penseroso*. (180).

Shakespeare: "Full many a glorious morning have I seen."

Wordsworth: "The world is too much with us."

J. C. Squire: "There was an Indian, who had known no change."

Milton: "On his blindness" published in a Book of English Poems by J. H. Jagger, M.A., D.Litt., Part IV, University of London Press, Ltd., Longman's Green &amp; Co.

*Prose—**For Detailed Study—*

1. A shorter Boswell: Edited by John Bailey, Thomas Nelson &amp; Sons.

2. Essays and Essayists: Edited by Henry Newbolt, Nelson &amp; Sons.

The selections from Steele, Addison, Goldsmith, Lamb, Stevenson, Mary Coleridge, Hilaire Belloc and Edward Thomas.

*For Non-detailed Study—*

Historical Tales from Shakespeare by A. T. Quiller Couch, Edward Arnold &amp; Co.

Dickens—A Tale of Two Cities: Edited by C. H. Russell, Macmillan &amp; Co.

## SANSKRIT.

1931.

### *Parts II and III-B—*

1. Kalidasa — *Malavikagnimitra*, Nirayasagara Press, Bombay.
2. Kalidasa—*Kumara-sambhava*, first three Cantos only, Nirayasagara Press, Bombay.
3. *Harsa-carita-samgraha* (Ucchvasas\* 3, 4, 5 and 6) by Pandit R. V. Krishnamachariyar. To be had of the Author, Government College, Kumbakonam.

\*Note.—Subject to approval by the Academic Council.

## MARATHI.

1931.

### PART II.

#### *For Non-Detailed Study—*

1. Justice Ranade's Religious Essays, Pages 1—216.
2. Life of Socrates by Krishna Shastri, Chiplunkar.

#### *Two hours Paper for Detailed Study—*

1. Navanita: All extracts of *Moropant*.
2. *Shakuntala* by Laxman Shastri Lele.
3. Life of Sri Jnaneshwar by B. K. Parakh.
4. *Marathe ani Ingraja* by N. C. Kelkhar.

### PART III-B.

The same as for Part II.

N.B.—All the above books can be had from Messrs. Parachure Puranik and Co., "Mādhava Bāg," Bombay, or New Kitab Khan, Poona City.

## ORIYA.

1931.

### PARTS II & III-B.

The same as for 1930.

## HINDI.

1931.

### PART II.

#### *For Non-Detailed Study—*

*Kadambari* by Gadadhar Sinha, published by Indian Press, Ltd., Allahabad.

*Sapta Saroj* (omitting Upadesh) by Premchand, published by Hindi Pustak Agency, Harrison Road, Calcutta.

***For Detailed Study—******Prose—***

Guru Nanak (Ganga Pustakmala Karyālya, Aminabad Park, Lucknow).

***Poetry—***

Praveshika Padyavali—Part I, pages 51-82, published by Indian Press, Ltd., Allahabad.

Van-Vaibhav by Maithlisharan Gupta, published by Sahitya Sadan, Chirgaon, Jhansi, United Provinces.

**PART III-B.**

The same as for Part II.

**LATIN.**

1931.

**PARTS II & III-B.**

Virgil: *Aeneid* VI.

Cicero: Speeches against Catiline, I—IV.

Livy: History, XXII.

**FRENCH.**

1931.

**PART II & III-B.**

Racine: *Britannicus* (first three Acts only).

Molière: *L'Avare*.

Maupassant: *Le Roman d'un Jeune Homme Pauvre*.

Selection by A. Watson Bain (Macmillan), 20 Sonnets, Nos. 101-120.

**GERMAN.**

1931.

Schiller, *Wilhelm Tell*.

Deutsche Erzählende Prosa, as in 1930.

A Book of German Verse adapted for schools and colleges (about 300 lines to be selected).

Hauff—Stories (about 60 pages to be selected).

*Note.*—The details of the selections in German will be given later.

## ARABIC.

1931.

### PART II.

Majāni'ul Adab, Volume I.

Addrúsun Nahvyah, Volumes I and II.

### PART III-B.

Nukhabul Mulah, Part IV.

Diwán, Abul 'Atāhiyah, Alif and Ba.

## PERSIAN.

1931.

### PART II.

Fársi-i-Jadíd, Parts II and III.

Dasturi-Fársi, Part II.

### PART III-B.

Siyásat Nameh, First 120 pages.

Ahmad Khan and Azizah.

Lu'ali-i-Manzumah.

## URDU.

1931.

### PART II.

Matriculation Nisábi Urdu (Usmaniah University).

Intikhab-i-Mazamin-i-Sir Sayyid.

Asás-i-Urdu.

### PART III-B.

Taubatun-Nasúh.

Diwan-i-Halí (Qit'át, Ghazaliyyat, and Ruba'iyyát).

Prem Battisi by Prem Chand, Part I.

## TAMIL.

1931.

### PART II.

*Detailed (2 hours paper)—*

(Selections published by the University.)

*Poetry—*

Kural (குறள்) Chaps. 9, 10, 11, 12 and 13.

Cilappadikaram—Venba (சிலப்பதிகாரம்—வெண்பாக்கள்).

Kambaramayanam—Thiruvadi Tholudapadalam (கம்பராமாயணம்

—திருவடி தொழுதபடலம்) 45 stanzas.

Vinayagar Pillaittamil-(விநாயகர் பின்னாத்தமிழ்) 10 stanzas

Karuvai Paditruppattandadi (கருவைப் பதிற்றுப்பத்தந்தாதி) 50 stanzas

Puviyelupathu(புவியெழுபது)-by R. Raghava Ayyangar, 70 Stanzas

**Prose—**

Cheran Chenkuttuvan (சேரன் செங்குட்டுவன்)—by M. Raghava Ayyangar, Tamil Lexicon office, Triplicane, Madras.

Silha Kalyanam (சீதா கலியாணம்)—by Diwan Bahadur S. Bhavanandam Pillai, Messrs. Higginbothams Ltd., Madras.

**Non-Detailed (3 hours paper)—**

Self-help (தன்முயற்சி)—Edited by C. R. Namasivaya Mudaliyar—Messrs. C. Coomarasawmi Naidu and Sons, Madras.

Manimekhalai (மணிமேகலை)—by Mahamahopadhyaya V. Swaminatha Ayyar, Tiruvatteswaranpet, Madras.

**PART III-B.**

**Prose and Poetry—**

The same as for 1930.

**TELUGU.**

1931.

**PART II.**

**Poetry—**

27. Sanjayundu Upaplavyambuna nunna Pandavula Yoddaku Vachuta, 123 verses.

52. Parvati Tapasu, 34 verses.

Prahladuni Charitramu in Bhagavatam by Bommera Potaraju.

Parijatapaharanamu by Mukku Timmanna, canto i, verses 33 to 137.

**Modern Poetry—**

Viswagunadarsamu by Ramakrishna Kavyulu of Pithapuram—Suryavarnanam to Jagannadhakshetravarnanam—pages 5 to 30 (both inclusive), 90 verses.

**Drama—**

Mudra Rakshasamu by Susurla Ananta Rao, published by V. Ramaswamy Sastrulu & Sons.

**Prose—**

Kathasaritsagaramu, 9th Lambaka, 80 pages.

Yejurveda Kathalu by P. Sarwesvara Sastri, published by V. Ramaswami Sastrulu & Sons.

Bharata Saramu, by N. Kuppuswamiah, Chapters VII and VIII.

*Non-Detailed—*

Chyavanudu, by K. Ramakrishna Sastri.

Harischandra, by K. C. Desikachari.

PART III—GROUP B.

Same as Part II.

**KANARESE.**

(PARTS II & III-B.)

(i) Selections published by the University—Pages 334 to 358, (Abhinava Dasakumara Charita & Pushpodbhava Charitam), and Pages 174 to 208 (Jayanripa Kavya).

(ii) Vikramorvasiya Nataka by Pandit S. Aiyasastri, (M. S. Rao & Co., Avenue Road, Bangalore City).

*For Non-Detailed Study—*

(iii) Koti Channaiya by P. Mangesh Rao, B. A., L. T., (Bala-Sahitya Mandala, Mangalore).

(iv) Jayachandra by Pandit Narasimhaiya, (M. S. Rao & Co., Bangalore City).

(v) Kadambari Kathe by Pandit G. V. Krishnachar, (M. S. Rao & Co., Bangalore City).

**MALAYALAM.**

PART II.

For the first paper of three hours' duration the following books are prescribed for non-detailed study for the essay:—

1. Unniramavarma by Pandit Sankara Menon, Trichur. (To be had of the Author).
2. Kundalatha by T. M. Appu Nedungadi, B.A., B.L., Calicut, (To be had of the Author).

*For the second paper of two hours' duration.*

*Poetry—*

1. Bharatham—Karnaparvam—by Ezuthachan (any press).
2. The following pieces in Tarangini by Ullur S. Parameswara Ayyar, M.A., B.L., Trivandrum, to be had of the Author:—
  - (a) Dathapaharam.
  - (b) Thumbapoovu.
  - (c) Balankuram.
  - (d) Sukham-Sukham.
3. Vinodini by Otuvil Kunhi Krishna Menon, B.A. (Published by P. V. Krishna Varier, Kottakkal).
4. Sreemanavikramavijayam by Kunhukuttan Thampuram, (Published by Kozhipurath Ramunni Menon, B.A., Sub-Registrar Guruvayur; can be had also at Mangalodayam Book Depot, Trichur).

570      **TEXT BOOKS IN PHYSICAL AND NATURAL      [APP.  
SCIENCES, HISTORIES AND GEOGRAPHY  
FOR INTER. EXAMN., 1931.**

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*Prose—*

1. Valluva Kammaran by C. Kunhi Raman Menon, (To be had at the Mangalodayam Press, Trichur).
2. Chandraguptan by K. V. M. (To be had at Jnanasagaram Book Depot, Trichur).

**PART III-B.**

*Poetry—*

1. Sishyanum Makanum by Vallathol, (Published by A. R. P. Press, Kunnamkulam, Cochin State).
2. Srikrishnacharitam Manipravalam—First two Sargams, (Any Press).

*Prose—*

1. Nalopakhyanam from the Bharatam (Prose) by Kunnath Janardana Menon, (Publisher—K. K. Thampan, Pulapatta, South Malabar).

**PHYSICS.**

1931.

The same as for 1930.

**CHEMISTRY.**

1931.

The same as for 1930.

**NATURAL SCIENCE.**

**BOTANY.**

1931.

The same as for 1930.

**ZOOLOGY AND PHYSIOLOGY.**

1931.

The same as for 1930.

**LOGIC.**

1931.

Creighton's Introductory Logic, Parts I and II  
(omitting Chapter 2),

**HISTORIES.**

1931.

The same as for 1930.

**GEOGRAPHY.**

1931.

The same as for 1930.

## INDIAN MUSIC.

1931.

*Books for reference.*

1. Sangita Sampradaya Pradarsini—Two Volumes and the Primer.
2. Oriental Music in European Notation—by A. M. Chinna-swami Mudaliyar.
3. Music of India by Rev. H. A. Popley.
4. Music of Hindusthan by A. H. Fox—Strangways.
5. Richardson—"Sound"
6. T. K. Krishnaswami—"Sound."
7. Modern Violin Technique by Thistleton.
8. "Thiagaraja" by M. S. Ramaswami Iyer.
9. Singarachari's Musical Publications in seven parts.
10. "Thyagaraja Hrudayam"—3 Volumes—by K. V. Srinivasa Ayyangar.
11. Bharata Sangita Swayambhodini by T. C. R. Johannes.

## ELECTRICAL ENGINEERING : MECHANICAL ENGINEERING : SURVEYING.

1931.

The same as for 1930.



### APPENDIX III.

#### B. A. Degree Examination, 1931

(Revised Regulations)

#### \*SYLLABUS.

##### (1) *Mathematics (Compulsory)*

I-A and I-B

*Geometrical Conics.*

Such leading properties of Conic Sections, as are specially suitable for treatment by elementary geometry.

##### *Detailed Syllabus.*

Focus-directrix definition of the conic; shape, axes of symmetry, centre, foci. The ellipse as orthogonal projection of a circle.

Geometrical treatment of the following propositions and their immediate applications.

(1) If a chord P Q of a conic, whose focus is S, meets the corresponding directrix in R, SR is a bisector of PSQ.

(2) The tangents from any point to a conic subtend equal or supplementary angles at a focus.

(3) The Semi-latus rectum is a harmonic mean between the segments of a focal chord.

(4) The locus of midpoints of parallel chords of a conic is a diameter.

(5) The sub-tangent of a parabola is bisected at the vertex, and the sub-normal is constant.

(6) The foot of the perpendicular from the focus on any tangent of a parabola lies on the tangent at the vertex.

(7) The focal chord of a parabola parallel to the tangent at P is equal to 4 SP.

(8)  $PV^2 = 4 SK \cdot KV$ , where PV is an ordinate to the diameter of the parabola through K.

(9) The sum or difference of the focal distances of any point on a central conic is constant.

(10) The tangent and normal to a central conic at P are bisectors of SPS'.

(11) The feet of the perpendiculars from the foci on any tangent lie on the auxiliary circle, and the rectangle under these perpendiculars is constant.

(12) The sum of the squares of conjugate diameters of an ellipse is constant.

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\* Subject to confirmation by the Academic Council.

(13) The locus of meets of perpendicular tangents of a conic is a circle, which reduces to a straight line when the conic is a parabola.

(14) Every plane section of a right circular cone or cylinder is a conic.

*Mathematics (Optional)*

**I-B**

**PURE GEOMETRY (OPTIONAL).**

Properties of triangles. Coaxal systems of circles. Inversion. Conical and orthogonal projections. Cross Ratios. Projective ranges and pencils. Involution. Non-focal properties of Conics. The Cross-ratio properties of Conics. Reciprocation. Duality. Circular points.

*Detailed Syllabus.*

Properties of triangles (isogonal conjugates, Lemoine points and the two Lemoine circles). Coaxal system of circles; limit points. The theory of inversion.

General properties relating to conical and orthogonal projection. Imaginary elements and the principle of continuity. Desargues theorem on projective triangles. Cross ratios. Projective ranges and pencils are equicross and conversely. Two projective ranges on the same straight-line have two self-corresponding points. Harmonic section; harmonic property of the pole and polar of a circle; of the complete quadrilateral and the complete quadrangle. Pappus's theorem.

The involution range and the involution pencil. The double elements are separated harmonically by every pair of corresponding elements. If  $AA^1$ ,  $BB^1$ ,  $CC^1$  are in involution, the ranges  $ABCA^1$ ,  $A^1B^1C^1A$  are equicross and conversely. Two involution-ranges on the same line have one and only one common corresponding pair. The definition of the circular points by means of the orthogonal involution pencil.

The study of the conic as projection of the circle. Non-focal properties common to all conics. Properties of the parabola, ellipse, hyperbola, rectangular hyperbola.

Cross ratio properties of conics. Pascal's and Brianchon's Theorems. Projective and involution-ranges on a conic.

Reciprocation with respect to a conic, and with respect to a circle. Duality.

Every circle passes through the circular points, and every conic through the circular points in a circle. Concentric circles have double contact at the circular points. The cross-ratio  $O(\square\square\square\square)A.B.$  depends only on the angle  $AOB$ . The definition of the foci of a conic by means of the circular points.

*Mathematics. I-B (Optional).*

ASTRONOMY.

The stars, the rotation of the earth, the celestial sphere. The principal instruments; determination of latitude and longitude. Distance and magnitude of the heavenly bodies. Refraction.

Simple problems connected with the diurnal motion. Apparent annual motion of the Sun, aberration; the equation of time. The nautical almanac. The motion of the moon; eclipses.

The stellar system.

*Detailed Syllabus.*

The most conspicuous stars. The principal constellations. The signs of the Zodiac. Double and multiple Stars. Variable Stars. Nebulae, comets and meteors.

The apparent motion of the heavens and its explanation by the rotation of the earth. Arguments and proofs for the earth's rotation. Foucault's gyroscope and pendulum experiments.

The celestial sphere and the different systems of co-ordinates.

The telescope. Reflectors and Refractors. Advantages and disadvantages of the two. The transit theodolite. The transit instrument, meridian circle, The clock. The chronometer. The chronograph. The equatorial. Sextant. Zenith Telescope. The principal errors of the transit instrument and their corrections.

Determination by observation, of clock error and rate; the right ascension and declination of a heavenly body; latitude and longitude of a place on land or sea. Sumner's method.

Form and size of the earth. Phenomena depending on a change of the observer's place on the earth. Parallax (diurnal and annual). Distance and magnitude of the Sun, Moon and the planets and stars.

The atmosphere and the effect on astronomical observations. The tangent formula of refraction. Cassini's formula. Twilight.

Simple problems connected with the diurnal motion. (Right angled spherical triangle. Sin and Cos formulae.) The apparent annual motion of the Sun and its consequences. The ecliptic and its obliquity. The position of the ecliptic at any given instant. The equinoxes and solstices. Determination of the first point of Aries and the obliquity of the ecliptic. Effects of precession and Nutation.

The earth's motion round the sun. Aberration and its effects. Kepler's Laws and Newton's deductions therefrom. True anomaly, means anomaly and lengths of the seasons. Sidereal Time. Apparent solar time, Mean Solar Time. Equation of time. The calendar. The use of the Nautical Almanac. Standard Time (India).

The motion of the Moon and her phases. The nodes and their motion. The Moon's sidereal and synodic periods. Eclipses and

their causes. Ecliptic limits. Number of eclipses in a year. The Saros.

The solar system and the direct and retrograde motions of planets (Taking coplanar circular orbits). The stationary positions, Periods of direct and retrograde motions. Phases of planets.

A general descriptive idea of the stellar system.

*Books Recommended for Study.*

1. Barlow and Bryan: Astronomy.
2. Ball: The Story of the Heavens.
3. Moulton: Introduction to Astronomy.
4. Russell, Dugan and Stewart: Astronomy Volume I.
5. Spencer Jones: General Astronomy restricting chapters. XII to XIV.
6. Parker: Astronomy.

*Books for Reference.*

1. Ball: Spherical Astronomy.
2. Russell, Dugan and Stewart: Astronomy, Volume II.
3. Hutchinson: Splendour of the Heavens, Volumes I and II.
4. Godfray: Astronomy

*Mathematics. I-B. (Optional).*

*Analysis.*

- i. Differential and Integral Calculus.  
Limit of a function. Differentiation. Mean value theorem and Taylor's series. Geometrical applications. Integration as an inverse process. Reduction formulae. Integral as the limit of a sum. Simpson's rule. Application of integration to mensuration.
- ii. Infinite Series and Products.  
Infinite sequences. Sequence definition of  $e$ . Tests for series. Exponential theorem. Infinite products,  $\sin x$  and  $\cos x$  as infinite products. The complex variable, the elementary transcendental functions of the complex variable.
- iii. Differential Equations.  
Formation of differential equations. Solution of the simplest types.

*Detailed Syllabus.*

(i) Differential and Integral Calculus.

Monotonic functions. Continuous and discontinuous functions with graphical illustrations. Limit of a function. Standard limit theorems required for differentiation.

Rules of differentiation. Successive differentiation. Leibniz's Theorem.

Rolle's Theorem. Mean value theorem with Lagrange's and Cauchy's form of remainder. Applications to maxima and

minima, to intermediate forms. Infinite Taylor expansions of elementary functions like  $\exp. x$ ,  $\sin x$ ,  $\log (1+x)$  etc., (with proofs).

Application of the derivative to plane curves; tangent; normal etc., in Cartesian and polar co-ordinates. (p,r) equations; pedals.

Curvature—formulae in rectangular and polar co-ordinates. Intrinsic equations, evolutes. envelopes.

Properties of the cycloid, cardioid, and catenary.

Integration as an inverse process. Standard forms. Reduction formulae.

Definite integral as a limit of a sum. Proof of the existence of limit when function is monotonic. Reduction formulae for definite integrals. Approximate integration. Simpson's rule.

Application of Integrals to Mensuration. Areas and lengths of plane curves in cartesian and polar co-ordinates. Volumes and areas of surfaces of revolution. Centre of Inertia, Moments of Inertia, of plane laminas and solids of revolution.

### (ii) *Infinite Series and Products.*

Infinite sequences and the classification of their modes of behaviour. Monotonic sequences. Bounded monotonic sequences tend to a limit (only intuitional proof). Standard limits includ-

ing, limits of  $\left(1 + \frac{1}{n}\right)^n$ ,  $\left(1 - \frac{1}{x}\right)^{-n}$ ,  $\left(\frac{n}{\sqrt{n-1}}\right)$

Cauchy's condensation test. Dirichlet's and Abel's Tests. Absolutely convergent double series. Theorems on the multiplication of absolutely convergent series. Application to the proof of the exponential theorem.

Convergence of infinite products  $\pi(1+a_n)$ ,  $\pi(1-a_n)$   
 $0 < a_n < 1$

Infinite products for  $\sin x$ ,  $\cos x$ .

Power series in a complex variable; circle of convergence. Simple properties of  $\exp z$ ,  $\log z$ ,  $\sin z$ ,  $\tan z$ ,  $\sin z$ , etc.,  $z$  being a complex variable. Easy examples in the summation of trigonometrical series, and in the expansions of trigonometric functions including inverse function.

### (iii) *Differential Equations.*

Formation of Differential Equations.

Variable Separable.

Homogeneous Equations  $M + N \frac{dy}{dx} = 0$ .

Linear Equations  $\frac{dy}{dx} + Py = Q$ .

Geometrical interpretation of a differential equation of the first order and first degree.

Orthogonal Trajectories: (Cartesian and polar co-ordinates).

Differential equation of the second order of the following types.

$$Q \left( \frac{d^2y}{dx^2}, \frac{dy}{dx}, x \right) = 0$$

$$Q \left( \frac{d^2y}{dx^2}, \frac{dy}{dx}, y \right) = 0$$

$$P \frac{d^2y}{dx^2} + Q \frac{dy}{dx} + R y = R$$

Where P, Q, R are functions of  $x$ , and a solution of the equation with the right hand side zero is known.

Linear equations with constant co-efficients.

$$\frac{d^ny}{dx^n} + A_1 \frac{d^{n-1}y}{dx^{n-1}} + \dots + A_n y = V$$

Where V is a sum of functions of the type  $\exp nx$ ,  $\sin nx$ ,  $\cos nx$ .

Simple geometric and dynamical applications of the above equations.

### *Mathematics. I-B. (Optional.)*

#### *Statistics.*

The course is intended to cover the element of statistical method, and to give an introduction to the method of computation

#### *(a) Elements of Statistical Method.*

Collection of statistics, tabulation, computation, frequency distribution, correlation table.

#### *(b) Applications.*

A candidate will be expected to show some knowledge of the application of statistical methods to the following: Index numbers, mortality table.

#### *(c) Practical Work.*

A candidate shall have undergone a course of practical instruction which should extend to about twenty-five hours.

This should cover:—

Computation and plotting, including use of tables and of semilogarithmic paper, tabulation, use of the histogram, sketching of frequency curve from histogram; fitting of normal curve; determination of deviation, medium. Simple case of correlation co-efficient.

Exercises on subjects in b.

#### *Detailed Syllabus.*

#### *(a) Elements of Statistical Method.*

Collection of Statistics.

Objects in view.  
Census as an example.  
Variables.

	Scheme.
	Principles to be observed.
	Size of samples required.
<b>Tabulation</b>	Classes.
	Choice of class interval.
<b>Computation</b>	Semi-logarithmic paper, Multipli- cation Tables, Barlow's Tables, Slide Rule, Pearson's Tables.
<b>Frequency Distribution, (one variable)</b>	Histogram. Frequency Polygon, Chance distribution, binomial, nor- mal curve, frequency curve.
	Averages; mean, median, mode.
	Skewness.
	Dispersion, mean deviation, stan- dard deviation.
	Ogive, quartiles, probable error.
	Sampling.
<b>Correlation Table, (Two variables)</b>	Co-efficient of correlation, Re- gression lines, correlation ratio.
The following book is recommended:—	
Gavett, G. Irving	First Course in Statistical Method, Mc. Graw Hill Book Company, New York.

## (2) PHYSICAL AND NATURAL SCIENCES

**Note.**—The syllabuses in the above subjects under the B. A. (old Regulations) will continue to be in force for the B. A. Degree (New Regulations) also, till syllabuses under the new regulations are prescribed, which are under consideration.

For Syllabuses in the above subjects under B. A. Degree (old Regulations) vide Appendix XXII.

## (3) PHILOSOPHY GROUP (III)

Syllabus in European Theory of knowledge will be prescribed later.

## (4) HISTORY AND ECONOMICS.

**SYLLABUSES FOR THE COURSE IN EUROPEAN HISTORY, INDIAN HISTORY  
AND POLITICAL (SCIENCE FOR GROUP (iv-A))**

The same as for B. A. Group (v-A) under the old Regulations.

**SYLLABUS IN ECONOMICS FOR GROUP (iv-A)**

The same as for B. A. Group (v-A) under the old Regulations

**SYLLABUS IN ECONOMICS AND HISTORY FOR GROUP (iv-B)**

Economics-General ... } The same as for B. A. Group (v-B) under  
Economics-Special ... } the old Regulations.

Economic History of Great Britain and India. } Will be prescribed later.

European History ... }  
Indian History ... } The same as for Group (iv-A).  
Political Science ... }

(5) SANSKRIT.

(a) *Sanskrit (Main).*

Sanskrit Language and Literature. The course shall be:—

- (a) Selections from the Early Period, including Vedic Mantras, Brahmanas, Aranyakas and Upanishads and the Sutra literature.
- (b) Selections in prose and verse from the Later Period, including the Dharmasastras, and the Itihasa, Kavya and Nataka literature.

A knowledge of Alamkara-sastra will be required sufficient for the correct understanding of native commentators.

- (c) Sanskrit Grammar treated historically and comparatively in accordance with a syllabus.
- (d) Translation from and into Sanskrit.
- (e) General History of Sanskrit Literature.
- (f) Early Indian History.

In the examination there shall be two papers, each of three hours' duration in subject (b) and one paper of three hours' duration in each of other subjects, except Translation which will form part of the papers set on (a) and (b) above.

(b) *Sanskrit (Subsidiary).*

The course shall consist of the study of one drama of the classical period and portions of one Kavya. In the examination there shall be one paper of three hours' duration which shall include pieces for translation from Sanskrit into the main language.

SYLLABUS FOR SANSKRIT GRAMMAR FOR GROUP

(v)—LANGUAGES OTHER THAN ENGLISH

*Sanskrit*

The following syllabus for Sanskrit Grammar treated historically and comparatively has been approved.

*Syllabus for Indo-European Philology with special reference to Sanskrit.*

N.B.—Knowledge, accurate, so far as it goes, but neither extensive nor minutely detailed, is expected under each head.



**P.I.E.** = Primitive Indo-European; **Ind.-Ir** = Indo-Iranian;  
**Skt.**=Sanskrit; **Gk.**=Greek, **Lat.**=Latin; **Teut.**=Teutonic.

## A. GENERAL.

**I. Elementary Phonetics.**—(a) The organs of speech—production and classification of speech-sounds. Quantity; accent,—sentence-, word-, and syllable accent. Glides.

(b) Phonetic description of all speech-sounds treated in the course. Phonetic transcription.

(c) Sound-change; isolative, conditional; defective imitation and the result of analogy. Meaning of the term 'Law' in Linguistic Science. Dialectal separation. Growth of 'literary' languages. Families of languages. Cognate words and loan words.

**II. The Indo-European Family of Languages.**—The original speech and its earliest dialectal divisions. Branches and sub-branches of the Indo-European Family. Some distinguishing characteristics of the Indo-Iranian, Hellenic, Italic, and Teutonic branches.

**III. Indo-Iranian.**—The Indian Sub-Branch. Dialects of Vedic times. Epic dialects. Classical Sanskrit. Middle Indian Speeches. New Indian Speeches.

## B. PHONOLOGY.

**IV. The P.I.E. vowel system.**—The oldest conditions: primary vowels: changes resultant on accent: secondary vowels and syllabic liquids and nasals. Vowel-gradation, quantitative and qualitative; its relation to accent and its bearing on morphology. The later P.I.E. vowel-system prior to the period of languages separation. General treatment of the P.I.E. vowel-system in the oldest Ind.-Ir., Gk., Lat., and Teut.

**V. The vowel-system of Skt.** in its relation to P.I.E. and to the vowel-systems mentioned in IV. Vowel-gradation in Skt.

**VI. The P.I.E. Consonant system.** Classification of the P.I.E. consonants. Earliest dialectal variations; the 'centum' and 'Satam' divisions. Treatment of the P.I.E. consonant generally in Ind.-Ir., Gk., Lat. and Teut.

**VII. Representation of the P.I.E. consonant-system in Skt.** Liquids and nasals. Plosive consonants. Cerebral consonants (Fortunatov's Law). Palatal and velar consonants. (The law of palatalization.) The law of aspirates (Grassmann's Law), Spirants, Semi-vowels.

**VIII. Sandhi, external and internal.** Glides in Skt. Anaptyxis (Svarabhakti). Haplology.

C. ACCIDENCE

- IX. Word-formation. Base, stem and suffix. Prefix-Infix.
- X. Skt. compounds, nominal and verbal.
- XI. Skt. suffixes, primary (krt) and secondary (taddhita).
- XII. *Nominal Declension*.—P.I.E. conditions. Number. Grammatical Gender. Case and case-endings. P.I.E. case-endings. Syncretism. Contamination. Classification of noun declensions according to suffix. Vowel and consonant-stems.
- XIII. *The noun declensions in Skt.* treated historically and comparatively with reference to P.I.E. Gk., Lat. and Teut. Philological explanation of all case-endings. Comparison of adjectives and formation of adverbs treated philologically.
- XIV. *Numerals*.—Philological treatment of the Skt. numerals.
- XV. *Pronouns and pronominal adjectives*.—The Skt. pronouns and pronominal adjectives treated philologically with reference to P.I.E., Gk., Lat. and Teut.
- XVI. *The Verb*.—The P.I.E. verbal-system generally treated; voice, mood, tense, augment, reduplication, personal endings. Thematic and Athematic stems. Types of verbal action.
- XVII. The Skt. verb in its relation to the P. I. E., verbal system. Present, perfect, aorist and future systems in Skt. Transfer from the athematic to the thematic class. Periphrastic formations. Analogy in the Skt. verbal-system. Derivative verbs—causative, denominative, desiderative, intensive.
- XVIII. Voices, moods and tenses in Skt. Infinitive verbal formations.

(6) TAMIL, TELUGU, KANARESE OR MALAYALAM.

The course shall be:—

- (a) The study of selections representative of the several periods of the literature of the selected language including one or more inscriptions.
- (b) The history of the literature with special reference to the set books.
- (c) The elements of the Grammar, including the elements of the Prosody and Rhetoric of the language, and the history of the language as illustrated by the set books.
- (d) The elements of the Comparative Grammar of the Dravidian Languages.
- (e) Composition.
- (f) Early South Indian History or Sanskrit.

582 SYLL. FOR THE COMPARATIVE GRAMMAR [APP.  
OF THE DRAVIDIAN LANGUAGES FOR GR. (v)  
—B. A. DEGREE EXAM.

(a) SYLLABUS FOR THE COMPARATIVE GRAMMAR  
OF THE DRAVIDIAN LANGUAGES FOR  
GROUP (v).

I. *Introductory*.—The origin of language. Classification of languages. Dialectal separation and growth of literary standard languages. Dialects and Cognate languages.

II. *Introductory* (continued).—The Dravidian group of languages and their chief characteristics. Reasons for choosing the word 'Dravidian' as name of this group. Enumeration of Dravidian languages. Meaning of the names 'Tamil,' 'Telugu,' 'Kanarese' and 'Malayalam.' Where they are spoken.

III. *Introductory* (continued).—Relation between Dravidian languages and Sanskrit. Dravidian element in North Indian vernaculars. Affiliation of Dravidian languages to the Scythian Group. Tamil, the most primitive of Dravidian languages.

IV. *Phonetics*.—Production and classification of speech sounds. Sound changes and their causes. Sounds and symbols. Conditions of a good orthography.

V. *Dravidian alphabets*.—Their history. Differences among existing alphabets. Their adequacy and inadequacy. Comparison of Dravidian sounds with Sanskrit and English sounds.

VI. *Dravidian Phonology*.—The primitive Dravidian parent language—

(1) Vowel-system.—Changes. Accent. Harmonic sequence of vowels.

(2) System of consonants.—Origin of cerebrals. Dialectic interchange of consonants. Euphonic permutation of consonants. Sandhi. Nasalization. Anusvara and Ardhanusvara. Prevention of hiatus.

(3) Dravidian syllabation.

VII. *Roots*.—Dravidian roots arranged into two classes. Verbal roots. Nouns. Lengthening of roots. Formative addition to roots.

VIII. *Accidence*: (1) *The Noun*—

(a) Gender.—Dravidian nouns divided into two classes denoting rational beings and irrational things except in Telugu in which they are classified as Mahat and Amahat, the latter including words denoting women. Comparison between Dravidian languages on the one hand and Sanskrit and English on the other.

(b) Number.—Singular and plural. No dual. Singular. Masculine, feminine and neuter. Plural-principles of pluralization.

**III] SYLL. FOR COMPARATIVE GRAMMAR OF THE 583  
 DRAVIDIAN LANGUAGES FOR GR. (v)—B.A.  
 DEGREE EXAM.**

(c) *Case*.—Principles of case-formation. Dravidian cases.

(2) *The Adjectives*.—Their agreement with substantives like those in Sanskrit. Formation of Dravidian adjectives from Sanskrit derivatives. Formation of adjectives from substantives, relative participles of verbs and past verbal participles. Comparison of adjectives.

(3) *The Numerals*.—Different views about their origin. The cardinals and ordinals. The neuter noun of number and the numerical adjective.

(4) *The Pronouns*.—Light thrown by pronouns on relationship of languages. Persistence of personal pronouns. Pronouns of the first person singular. Comparison of dialects. Analogies. Pronouns of the second person singular. Comparison of dialects. The reflexive pronoun. Pluralization of the personal and reflexive pronoun. Demonstrative and interrogative pronouns. Demonstrative cases. Interrogative cases. Demonstrative and interrogative adjectives. Demonstrative and interrogative adverbs. Honorific demonstrative pronouns.

(5) *The Verbs*.—Structure of the Dravidian verb. Roots used either as verbs or nouns. Formative particles often added to roots. Classification of verbs into transitive and intransitive. Ways in which intransitive verbs change into transitive. Sanskrit analogies.

(a) *Causal verb*—Causals formed from transitives. Origin of Dravidian causal particle.

(b) *Frequentative verbs*.

(c) *Conjugational system*.—Formation of the tenses. Verbal participles. Their signification and force. The present tense and its formation. The preterite tense and its formation. The future tense. The future formation in Dravidian languages. The relative participle.

(d) *Formation of Moods*.—Method of forming the conditional, the imperative and the infinitive; origin of the infinitive suffix.

(e) *The Voice*—Active and passive—The negative voice. Combination of negative particles with verbal themes. The Dravidian negative particle.

(f) *Formation of verbal nouns, derivative nouns and abstract nouns*.

(6) *Adverbs*.

**IX. Vocabulary.**—I. Borrowing and its causes. Social, commercial, political and religious. Borrowings from Sanskrit, borrowings from other languages.

2. Structure and form.—The essentials for the individuality of a language. Vocabulary cannot change the character of a language. Hybrids. Gain and loss from mixed character of a language.

X. *Comparative Syntax*.—The syntax of the several languages compared. Differences and similarities. The extent of Sanskrit influence over the syntax of the several languages.

## (b) SYLLABUS FOR THE HISTORY OF THE TAMIL LANGUAGE

I. *General*.—The origin and meaning of the word 'Tamil.' The place of Tamil in the Dravidian family of languages, its high antiquity, the geographical area where it was spoken in ancient times as referred to by old commentators, the twelve Sen-Tamil and the twelve Kodum-Tamil countries. Very early cultivation of Tamil as a literary language; the three Sangams, how far historical; Agastyar; his contribution to Tamil. *Tolkappiyam*: its importance for the study of the language. The extent of Sanskrit influence on Tamil Grammar.

II. *The periods of Tamil language*.—(1) The old or Sangam Tamil, (2) the mediaeval Tamil and (3) the modern Tamil. Illustrative literature of each period. Grammars of the different periods: *Tolkappiyam*, *Vīrasōliyam* and *Nannūl*. The difference between the language of the different periods in point of vocabulary and grammar.

III. *Language and Dialect*.—The standard or literary language and the spoken language, their relation and mutual influence. The difference between the two. Sen-Tamil. Kodum-Tamil. Iyal, Isai, Natakam Tamils. Dialects: how formed. Different localities and different classes of people in the same locality have different dialects. Are dialects discernible in ancient literary works?

IV. *The Alphabet*.—(a) *The Script*.—its gradual development. Vatteluttu, the grantha-Tamil characters, their geographical distribution, origin and history. The relation of Vatteluttu and grantha-Tamil characters to Brahmi. The form of Tamil characters how far determinable from *Tolkappiyam* and the other grammars and commentaries thereon. The dotted e and o. Gradual changes in script. Changes credited to Beschi. (b) *The sound values*. How far the alphabet is phonetic. Its pronunciation, the spoken sounds, and the written symbols.

V. *Phonology*.—Vowels and their relation to the primitive Dravidian vowel-system. Classification of vowels according to the place of production. Diphthongs. Accent and emphasis, accent determining change, *eduttal* (rising accent), *paduttal* (falling accent), *nalital* (level or vanishing accent). The influence of accent on word-change and in prosody: *alapedai*. Mutation of vowels. Vowel harmony. Vowel sandhi—glides.

VI. *Phonology (continued).*—Consonants and their relation to the primitive Dravidian consonants, classification of consonants according to the place of production. History of consonantal sounds, palatalization, dentalisation, voicing, unvoicing, consonant length. Assimilation. Consonantal alapedai. Dialectal interchange of consonants. Consonantal sandhi. Laws of Tamil syllabation, the initial, the medial, the final letters in a word, the difference between *Tolkāppiyam* and *Nannāl* on this point. The light thrown by the rules of syllabation on the nature of loan words.

VII. *Accidence.*—(1) *Nouns.*—Gender and number; how mutually expressive and interdependent. Are Dravidian nouns naturally neuter? Gender prefixes and suffixes, the epicene plural as distinguished from the Neuter plural, the neuter plural suffixes, double plurals, gender and number treatment, how they differ in old and modern Tamil. (2) *Case*, the number of cases and Sanskrit influence, the formation of the oblique case, the inflexional base, the inflexional increments or augments, their varied uses, the suffixes of the various cases, their probable origin and history. The uses of the various cases. Old Tamil, modern Tamil, how they differ in the formation of cases.

VIII. *Accidence (continued)*—*The Pronouns.*—Their form in old and modern Tamil, the three persons and their plural forms, the oblique forms of the pronouns, the phonetic relationship between the oblique and the substantive forms of the pronouns. The reflexive pronouns, the demonstrative and the interrogative cases, old and modern forms. Honorific pronouns.

IX. *Accidence (continued)*—(1) *The Verbs.*—The structure of the verbs, the base, the tense infix and the pronominal suffix. classification of verbs into *tan-vinal* and *pira-vinal*. How far this classification is synonymous with 'transitive' and 'intransitive,' the causals, the modes of forming the causals and the transitives. The various causal suffixes, reduplication. Appellative verbs. (2) The passive voice, the history of *padu*, the different modes of expressing the passive significance and of negative particles in old and modern Tamil. (3) The imperative form of the verb, how the infinitive is formed, the various suffixes in old and modern Tamil. The subjunctive, how expressed in old and modern Tamil. (4) The Tenses;—the tense infixes (*idamīlai*, the present, the preterite, and the future), Is there no reference to the present tense in the *Tolkāppiyam*? The difference between the old and modern Tamil as regards the tense formation. *Kirukinru*, *t*, *t<sub>r</sub>*, and *in*; and *p*. and *v*. their history, phonetic relationship, etc., and the principles of their use. (5) The relative and the verbal participles, the suffixes forming them.

X. *Accidence (continued)*—*The Adjectives and the Adverbs (uriccol).*—The adjectival and the adverbial participles, their origin and history. *The numerals.* The cardinals and the ordinals and the multiplicatives, the numeral bases mainly adjectival

in nature, formation of substantive numerals from the base, the principles of formation. The double forms such as *ir* and *ir*, *mu* and *mu*, etc., their uses and the laws governing them. The light thrown by the numerals on the antiquity of Tamil. The particles (*idaicol*), their origin and significance. (Interjections) and conjunctive particles.

XI. *Vocabulary*.—The general character of the Tamil vocabulary at different periods, the so-called pure Tamil. Borrowing. Its causes. Periods of borrowing, character, comparative extent of borrowing at each period. Doublets, Telugu and Kanarese element, causes of admixture, various periods of entry of Telugu and Kanarese words into Tamil. Loss of old words. Nature and extent.

XII. *Vocabulary* (continued).—Sanskrit words; Tatsamas: Samskritasamas and Prakritasamas. Laws of formation. Tadbhavas, Samskritabhavas and Prakritabhavas. Laws of formation. Period of extensive Prakrita borrowing. Other borrowings, Hindi, Portuguese, English, etc., Manipravala style. Hybrids, Tests for distinguishing loan words.

XIII. *Word-building in Tamil*.—(1) By composition, compound words like *kadu-vay*, etc. Several kinds of compounds or *tokai*:—*ummai* and *uvamai*, etc. (2) By derivation, the various suffixes used to form nouns, verbs, adjectives and adverbs, etc. (3) Root-creation, bank formation, double bases like *nal*, *nan*, etc. Old and modern Tamil compared as regards the capacity to form new words and also the method of forming the words.

XIV. *Semantics*.—Changes in the meaning and usage. Elevation, degradation, specialisation and generalisation of native and foreign words.

XV. *Syntax*.—Order of words in a sentence. The difference between Poetry and Prose as regards syntax. Deviations from the normal order of words in a sentence and their causes. Sanskrit constructions in Tamil.

#### (c) SYLLABUS FOR THE HISTORY OF THE TELUGU LANGUAGE.

I. *General*.—The origin and meaning of the word 'Telugu,' The place of Telugu in the Dravidian family of languages. Its antiquity and its geographical distribution. Period of its early cultivation as inferred from the inscriptions. The extent of Sanskrit influence over Telugu Grammar.

II. *Periods of Telugu Language*.—The pre-Nannayya period, the Nannayya period, and the post-Nannayya period. Illustrative literature of each period. Grammar of each period. Difference between languages of different periods in point of vocabulary and grammar.

III. *Language and Dialect*.—The standard of literary language and the spoken language. Their relation and mutual influence.

ence. Dialects. How formed? Different localities and different classes of people in the same locality have different dialects. Are dialects discernible in ancient literary works?

IV. *Telugu Alphabet*—

(a) *The Script*.—Its gradual development. The Telugu-Kaharese form and its relation to Brahmi, Vengi and Chalukya scripts.

(b) *The sound-values*.—How far the alphabet is phonetic. Its pronunciation. The spoken sounds and the written symbols.

V. *Phonology*.—Vowels and their relation to the primitive Dravidian vowel-system. Classification of vowels according to the place of production. Diphthongs. Accent and emphasis. Accent determining change. Mutation of vowels. Vowel harmony, vowel sandhi.

VI. *Phonology* (continued).—Consonants and their relation to the primitive Dravidian consonants. Classification of Telugu consonants according to the place of production. Consonantal diphthongs. Mutation of consonants. Assimilation of consonants and consonantal sandhi. Other changes in consonants. Palatalization, Dentalization, Voicing, Unvoicing, Compensatory length, etc. The theory of ardhanusvara and the cacuminal Dialectic interchange of consonants. Telugu syllabation.

VII. *Accidence*.—Nouns. Gender. Nouns denoting *mahat* and *amahat*. Number. No dual. Principles of pluralization. Different treatment of *tatsama* and *accika* words with regard to the formation of number and gender. Case and case-endings. Principles of case formation. Aupavibhaktikas.

VIII. *Accidence* (continued).—Adjectives. Classification of adjectives. Their agreement with substantives. Formation of adjectives from substantives. Comparison of adjectives.

IX. *Accidence* (continued).—Numerals. Ordinals and cardinals. Declension of numerals.

X. *Accidence* (continued).—Pronouns. Classification of pronouns. Declension of pronouns. History of the Telugu pronouns. Demonstrative and interrogative adjectives. Demonstrative and interrogative adverbs. Honorific demonstrative pronouns.

XI *Accidence* (continued).—The verb. Structure of the verb. Causal verbs. Atmanepada verbs: Voice: Active and passive. Tenses, present, past and future. Moods, conditional, imperative, infinitive and negative. Formation of verbal participles, verbal nouns, derivative nouns, and abstract nouns.

XII. *Accidence* (continued).—Adverbs. No real adverbs in Telugu.



**XIII. Vocabulary.**—General character of the Telugu vocabulary. The native element. The so-called *acca*-Telugu. Borrowing and its causes. Formation of compounds. Coining doublets. Dravidian basic element. Tamil and Kanarese element. Causes of admixture. Various periods of entry of Tamil and Kanarese words into Telugu.

**XIV. Vocabulary** (continued).—*Tatsama* words. *Samskritasama* and *Prakritasama*. Laws of formation. Period of extensive Prakrit borrowing. *Tadbhava* words. *Samskritabhava* and *Prakritabhava*. Laws of formation. Other borrowings. Hindustani, Marathi, Oriya, English, French; etc.

**XV. Word-Building.**—(1) By composition. (2) By derivation. The various suffixes used to form nouns, verbs, adjectives and adverbs, etc. (3) Root-creation.

**XVI. Semantics.**—Changes in meaning and usage. Elevation and degradation. Specialization and generalization of native and foreign words. Obsolete words.

**XVII.—Syntax.**—Order of words in a sentence. The difference between Prose and Poetry as regards syntax. Deviations from the normal order of words in a sentence and their causes. Sanskritic constructions in Telugu.

(d) SYLLABUS FOR THE HISTORY OF THE KANARESE  
LANGUAGE.

**I. General.**—The origin and meaning of the word 'Kanarese'. The place of 'Kanarese' in the Dravidian family of languages. Its high antiquity and its geographical distribution. Period of its early cultivation as inferred from the inscriptions. The extent of influence of Tamil, Telugu, Malayalam and Marathi, etc., if any, and of Sanskrit over Kanarese grammar.

**II. The Periods of Kanarese Language—**

(1) The period of the written ancient dialect.

(2) The period of the mediæval dialect.

(3) The period of the modern dialect.

Illustrative literature of each period. Grammar of each period. Difference between the languages of different periods in point of vocabulary and grammar.

**III. Language and Dialect.**—The standard of literary language and the spoken language. Their relation and mutual influence. Dialects. How formed? Different localities and different dialects. Badaga, how an ancient Kanarese dialect. Are dialects discernible in ancient literary works?

**IV. Kanarese Alphabet—**

(a) *The Script*—The Kanarese alphabet a variety of the so-called Cave-character. Its gradual development. The Telugu-

Kanarese form and its relation to Brahmi, Vengi and Chalukya scripts, and the script of the *śasanas* of Cochin.

(b) *The sound-values*.—Unlike the Tamil and Malayalam alphabet, the alphabet is perfectly phonetic. The spoken sounds and the written symbols.

V. *Phonology*.—Vowel system.—Vowels in Accagannada and those borrowed from Sanskrit. Vowels and their relation to primitive Dravidian vowel system. Classification of vowels according to the place of production. Diphthongs. History of the vowel sounds. Accent and emphasis. Accent determining change. Mutation of vowels. Vowel harmony. Vowel sandhi, glides.

VI. *Phonology* (continued).—Consonant system.—Consonants in Accagannada and those borrowed from Sanskrit. Consonants and their relation to the primitive Dravidian consonants. Classification of consonants according to the place of production. Consonantal diphthongs. Mutation of consonants. \* Assimilation of consonants and consonantal sandhis. History of consonantal sounds, doubling of consonants, palatalization, dentalization, voicing, unvoicing, compensatory lengthening, nasalization, denasalization, etc. Dialectic change of consonants. Theory of Kula and Ksala L's and the history of *r* and *l*. Kanarese syllabation.

VII. *Accidence*.—Nouns. (1) Gender. Are Dravidian nouns naturally neuter? Nine genders according to the grammarian Kēsīrāja, reducible however to three, masculine, feminine, and neuter. Gender prefixes and suffixes. Gender in metaphorical diction etc.

(b) Number. Words plural in form, but with a dual signification. Principles of pluralization. The epicene plural, the neuter plural, double plurals. Gender and noun treatment, how they differ in old, mediæval and modern Kanarese.

(2) Cases and case-endings in old, mediæval and modern Kanarese. Percilinds of case-formation.

VIII. *Accidence* (continued).—Adjectives or attributive nouns (gunavacanas). Classification of adjectives. Formation of adjectives. Their gender and agreement with substantives. Ordinary nouns and pronominal nouns used as adjectives. Adjectives used as adverbs. Comparison of adjectives.

IX. *Accidence* (continued).—Numerals. The cardinals and the ordinals, the multiplicatives, appellative nouns of number in Kanarese and the history and principles of their formation.

X. *Accidence* (continued).—Pronouns. Classification of pronouns. Their forms in the dialects of Kanarese. Declension of pronouns. History of pronouns. Reflexive pronouns, demonstrative and interrogative pronouns.

XI. *Accidence* (continued).—Verb. I. Structure of the verb. The base, the tense suffixes. Classification of verbs into transi-

tive and intransitive, though felt was not mentioned by Kēsirāja and Nagavarma, but introduced by Bhattakalanka about 400 years later. The modes of forming the causals and the transitive.

2. The passive voice. The different modes of expressing the passive significance.

3. The various modes of expressing the negative significance.

4. The imperative form of the verb, the infinitive.

5. No moods in Kanarese—the conditional or the subjunctive how expressed.

6. The primary tenses—the present, the preterite and the future. the history of their formation and their uses.

7. Other compound tenses, such as continuative perfect, imperfect future, perfect future, perfect, etc., though not specified in ancient grammars, how expressed.

8. Formation of the verbal participles; verbal nouns, derivative nouns and abstract nouns.

9. The various modes of expressing the English auxiliaries in Kanarese.

10. The frequentative or iterative verbs in Kanarese, but a kind of such verbs formed by simple (yugalōccāraṇa) or triple repetition (triprayoga).

XII. *Accidence* (continued).—Adverbs, the different modes of their formation and their history.

Conjunctives and their history.

XIII. *Vocabulary*.—General character of the Kanarese vocabulary. The so-called Accagannada. Borrowing and its causes. Periods of borrowing, character and comparative extent of borrowing at each period. Hindustani, Marathi, English and Portuguese element. Loss of old words. Nature and extent.

XIV. *Vocabulary* (continued).—Samasamskrita words, tatsama words, tadbhavas, or apabhramas, laws of formation.

XV. *Word-Building*.—(1) By composition. (2) By derivation. The various suffixes used to form nouns, verbs, adjectives, and adverbs, etc. (3) Root-creation.

XVI. *Semantics*.—Changes in meaning and usage. Elevation, degradation, specialization and generalization of native and foreign words.

XVII. *Syntax*.—1. Order of words in a sentence. The difference between Prose and Poetry as regards Syntax. Deviation from the normal order of words in a sentence and their cases.

2. The different kinds of *karaka* or the relation of the noun to the verb.

3. The uses of the cases.

4. The uses of the singular for the plural and *vice versa* of nouns, pronouns and verbs in a sentence.

5. Use of the singular and plural of Samskrita adjectives and their agreement with nouns.

(c) SYLLABUS FOR THE HISTORY OF THE  
MALAYALAM LANGUAGE.

1. *General*.—The origin and meaning of the word Malayalam. The place of Malayalam in the Dravidian family of languages. Its age and the geographical area where it has been in use. Kerala and its peculiar geographical position which brought about the development of Malayalam as a separate language. The beginning of the cultivation of Malayalam as a literary language. Earliest available works such as Ramacharitam, their importance for the historical study of the language.

II. *The periods of Malayalam language*.—Ancient, mediæval and modern characteristics of the language. Illustrative literature of each period and difference in point of grammar and vocabulary.

III. *Language and dialect*.—The standard of literary language and the spoken language. Their relation and mutual influence. The extent of Sanskrit influence on vocabulary and grammar. Dialects; How formed? Different localities and different classes of people in the same locality have different dialects. Are dialects discernible in old literary works?

IV. *The Alphabet*.—(a) The Script; its development. Ancient Vatteluttu, modern Arya-eluttu, history of the two scripts. Arya-eluttu and the consequent introduction of Sanskrit pronunciation. Changes in spelling consequent on the transcription of Vatteluttu into Arya-elluttu. (b) *The sound-values*, how far the alphabet is phonetic; its pronunciation: the spoken sounds and the written symbols. Causes of the differences in pronunciation and spelling in modern Malayalam. Spelling reform. Words spelt variously. Need for amplifying the Arya-eluttu so as to facilitate the presentation of English sounds in Malayalam. Difference between ancient and modern pronunciation.

V. *Phonology*.—(a) 1. Vowels and their relation to primitive Dravidian vowel systems. Classification of vowels according to the place of production. Diphthongs. Interchange of short vowels in Malayalam and other cognate languages. Long vowels mostly secondary. (b) Consonants and their relation to primitive Dravidian consonants. Classification of consonants according to the place of production. History of consonantal

sounds, palatalization, dentalization, voicing, unvoicing. Consonant. length. Assimilation. Interchange of consonants in Dravidian languages: (a) palatals for gutturals and dentals; (b) linguals for dentals, etc. Conjunct consonants how formed; the part played by them in word-building.

VI. *Accidence*.—Nouns (1) Nominal bases—primitive and derivative, noun-compounds, ancient and modern. Inflection of nouns for gender, number and case. *Origin of gender* in Dravidian: Co-ordination of nouns and demonstrative pronouns: instances where these pronouns are used to denote gender. Changes of the demonstrative pronouns when used as terminations: (a) masculine (b) feminine (c) neuter. Are Dravidian nouns naturally neuter? Gender prefixes and suffixes. Poetic gender. Result of personification—based on Sanskrit usage. Concord of qualifying adjuncts (attributes) and qualified words. *Number*: Suffixes ar, ir, or, mur, etc *Kul* the most ancient plural Suffix—its changes. Difference in the use of plural forms. Honorific and epicene plurals. Double plurals kalviar, kanniar, avargal, exceptional forms of plural nouns always used in the plural. *Case*, the number of cases and Sanskrit influence; the formation of the oblique case; the inflexional base; cases formed by suffixes and cases formed by agglutination. *Gatis*, their origin and history. Functions of cases and their significance. Metaplastic forms.

VII. *Accidence* (continued). *The Pronouns*.—Personal, demonstrative and interrogative; the last used as relative pronouns. The age of pronouns in the language. Their forms in old and modern Malayalam. Comparison of Dravidian pronouns. Honorific pronouns.

VIII. *Accidence* (continued). *The Verbs* (1) The structure of the verbs; the base; formative particles added to roots. Classification of primitive roots according to (1) form—strong and weak; (2) the sense—(a) Transitive, (b) Intransitive; (c) Reflexive or Neuter; (d) verbs whose agents do not come in the nominative case. Classification of secondary roots: (a) Transitive verbs derived from Intransitive and Neuter verbs; (b) Causal verbs derived from Intransitive and Transitive verbs; (c) Demonstrative verbs; (d) Ferquentative verbs.

*Finite Verbs*. Tenses—suffixes—personal terminations—origin of each; loss of personal terminations. Compound tenses. *Moods*—How the imperative is formed; How the infinitive is formed; Indicative, Optative, and Potential moods. *Voices*: Is there passive voice in Dravidian Languages? Devices for denoting the idea of the passive voice; the history of *pedu negative verbs*: the growing disuse of the negative tenses.

*Infinitive Verbs*.—Double parts of speech, incapable of serving as a complete predicate in a sentence. Verbal nouns and nouns of agency. Participles qualifying nouns as adjectives. Participles modifying verbs as adverbs.

IX. *Vocabulary*.—The general character of the Malayalam vocabulary at different periods. Indigenous words, cognate words—Tatsamas and Tadbhavas and causes of the latter. Borrowing—periods and causes of the borrowing; the purposes for which foreign words were borrowed. Loss of old words—nature and extent.

X. *Word-building in Malayalam*—(1) by composition—Several kinds of compounds; (2) by derivation; The various suffixes used to form nouns, verbs, adjectives, adverbs; (3) Root-creation.

XI. *Semantics*—Changes in the meanings and usage. Elevation, degradation, specialization and generalization of native and foreign words.

XII. *Syntax*—Order of words in a sentence—the difference between Prose and Poetry as regards syntax. Special deviation from the normal order of words in a sentence and their causes. Sanskrit constructions in Malayalam.

(7) RELATED SUBJECT: THE DRAVIDIAN LANGUAGES:  
 SYLLABUS FOR EARLY SOUTH INDIAN HISTORY.

I. *Geographical divisions etc., of India*.—India, south of the Vindhyas; Mahismati, the recognised point of separation between the north and the south; Dakhan and South India; Krishna the dividing line.

II. *Early inhabitants and their civilization*. etc.—Primitive inhabitants, their civilization and culture; the Aryan expansion southwards; knowledge of South India in Early Indian literature, Sanskrit and Pali; story of Agastya and his disciples; beginnings of Tamil literature.

III. *Cis-Vindhyan India in the Mauryan age*.—The Dakhan and South India in the Mauryan age; extent of Asoka's empire and his relations with South India; the rise of the Andhras; Kharavela and Kalinga; South India and Ceylon.

IV. *The Andhras of the Dakhan*.—The Andhras, their original home; their early history; Andhras in the Puranas; the later Andhras; the extent of the empire and its divisions; religion, literature, etc., under the Andhras; break up of the Andhra empire.

V. *South India in the early centuries of the Christian Era*.—South India at the dawn of the Christian era; political divisions of South India; contact with the outside world; commerce and colonization; Tamil literature of the period and its character.

VI. *The Pallavas and connected dynasties*.—The Pallavas and the Tondaiyar; Tondamandalam and its reclamation; Tondamandalam Tiraiyan of Kanchi; Satavahana expansion south-

wards; the Early Pallavas and their origin; their relation to the Andhras and the Tamil rulers of the South; the history of the Early Pallavas; the invasion of Samudragupta; the further history of the Early Pallavas; Kadambas, Gangas, and other minor dynasties and their relation to the Pallavas; Pallava supremacy in South India: Pallava culture.

VII. *Cis-Vindhyan India, in the age of the Guptas.*—Feudatories of the Andhras; the Chutus, the Abhiras, etc.; the Vidhyakas, the Vishnukundins, the Salankayanas, etc.; the Vakatakas; their rise and early expansion; the character of Samudragupta's southern invasion; the Vakatakas and the Guptas; continuance of Vakataka rule.

VIII. *The Pallava ascendancy in South India.*—Pallava ascendancy in South India; the great Pallavas of the Simhavishnu line; the extension of Pallava authority into the Chola country; the Pallava-Chalukya struggle; check to the Chalukya advance in the south under Pulakesin; the continuation of the struggle; overthrow of the Simhavishnu line by Nandivarman Pallavamalla; literature, art, etc., during the period.

IX. *The Chalukyas of Badami.*—The Early Chalukyas; Chalukya expansion under Pulakesin; check to Harsha's Imperial expansion; foundation of the kingdom of the Eastern Chalukyas; the successors of Pulakesin II; Chalukya overthrow by the Rashtrakutas; the general condition of the Chalukya kingdom: Hiuen-Tsang.

X *The later Pallavas and the Pallava-Pandya Struggle.*—Later Pallavas; Nandivarman Pallavamalla; restoration of Pallava ascendancy. The Pallava-Pandya struggle; the Pallavas and the Rashtrakutas; the rise of the Gangas; the Gangas as Rashtrakuta feudatories; Dantivarman; Nandivarman of Tellaru; Nripatunga and Aparajita; the end of the Pallava ascendancy and the rise of the Cholas.

XI. *The Rashtrakuta Ascendancy.*—The Rashtrakutas; Dantidurga and the Pallavas; Krishna I, Dhruva and the Gangas; Govinda III; the expansion of the Rashtrakuta power; relation with the Gurjaras and of the Palas and the Eastern Chalukyas; the greatest expansion of the Rashtrakuta power under Amoghavarsha; the Gujarati branch of the Rashtrakuta; Krishna II; Krishna III; successors of Krishna III; Rashtrakutas and Paramaras; the supersession of the Rashtrakutas by the Chalukyas.

XII. *The Eastern Chalukyas.*—Eastern Chalukyas; change of relationship with the accession of the Rashtrakutas to power; Vijayaditya II; assertion of the Rashtrakuta ascendancy under Govinda III and Amoghavarsha; relation between the Eastern Chalukyas and the Pallavas; internal dissensions; Chola intervention; Rajaraja II of the Eastern Chalukyas.

**XIII. *The Chola Ascendancy in South India.***—The rise of the Cholas; the Pallava-Pandya wars; Vijayalaya; Aditya; Parantaka, the founder of the greatness of the Cholas; the Chola-Rashtrakuta struggle; Rajaraja the Great; Rajaraja; his relations with the Eastern Chalukyas; Rajendra and the expansion of the Chola empire; his invasions of Northern India and across the seas; the Chola-Pandya war in the second half of the twelfth century; Ceylonese intervention; Kulottunga III; and the reassertion of Chola authority over the Pandyas; the revival of the Pandya power; the last Cholas; the Hoysala intervention; the establishment of the Pandya ascendancy; end of the Cholas.

**XIV. *The Chalukyas of Kalyani.***—The later Chalukyas; the overthrow of the Rashtrakutas; the Chola conquest of Gangavadi and its results; the first wars of the Chalukyas against the Cholas; the Raichur Doab, the bone of contention; Somesvara Ahavamalla and the successors of Rajendra I; relation between the Eastern and the Western Chalukyas: Chola-Chalukya wars under Somesvara II and the early years of Vikramaditya; Vikramaditya VI; the condition of his empire; the successors of Vikramaditya; the rise of the feudatory states; the Kalachurya usurpation; the Chalukya restoration and extinction.

**XV. *The Pandya Revival in the South.***—The revival of Pandya power under the successors of Kulottunga III; Rajaraja III; Pandyan invasions under Maravarman Sundara Pandya I; Hoysala intervention; Hoysala alliance with the Pandyas; Hoysala dominance in the South under Maravarman Sundara Pandya II; Jatavarman Sundara Pandya I; his wars and the end of Hoysala dominance in the Tamil country; successors of Jatavarman Sundara; Maravarman Kulasekhara and the prosperity of the Pandya kingdom; the wars between his sons and the Muhammadan invasion.

**XVI. *The Feudatory Dynasties; I. The Hoysalas.***—The feudatories of the Chalukyas; the Hoysalas of Dvarasamudra; foundation of their power; its growth under Vishnuvardhana and Vira Ballala II. Hoysalas as an independent dynasty; Narasimha II and the Hoysala expansion southwards; Somesvara and the Hoysala ascendancy in the south; division of the empire between Narasimha III and Vira Ramanatha; Vira Ballala III, ruler of the whole of the Hoysala territory; the Muhammadan invasions.

**XVII. *The Feudatory Dynasties; II. The Yadavas of Devagiri.***—Seunas or Yadavas of Devagiri; the early rulers; Bhillama III, Viceroy of Somesvara I; Seunachandra II, Bhillama IV, the first paramount sovereign of this dynasty; Jaituji; Singhana; Devagiri, his capital; his wars against the Hoysalas and the Kakatiyas; Krishna and Mahadeva; relations between the Yadavas and the Kakatiyas; Yadavas and the Hoysalas; Ramachandra; Muhammadan invasions under him; Harapala; reduction of the kingdom by Mubarak Khilji.



**XVIII. The Feudatory Dynasties; III. Kakattiyas of Warangal.**—Foundation of the Kakatiya power, Prola; Prataparudra; transfer of capital to Warangal; Mahadeva; Ganapati-Rudrama or Rudrama Prataparudra II; Muhammadan invasions in his reign; Krishna, his son the last ruler of the dynasty.

**XIX. The Muhammadan Invasions and the Foundation of Vijayanagar.**—Muhammadan invasions of South India, their character, extent, and result; the empire of Muhammad Tughlak; Muhammadan possessions south of the Vindhya; Hindu struggle for the independence under Hoysala leadership; foundation of Vijayanagar and the Bahmani kingdoms.

**XXI. Vijayanagar under the first dynasty.**—The first dynasty; Harihara and Bukka; the wars of the latter; Harihara II, assumption of imperial titles and responsibility; relations with the Bahmani kingdom under Harihara and his successors; the Bahmani wars and their character; Devaraya II, the greatest ruler of the first dynasty; the city and the empire under him, rise of Orissa; alliance between Orissa and the Bahmani kingdom; Devaraya's successors; condition of the empire.

**XXI. Vijayanagar under the usurpation; Saluvas and Tuluvas.**—The rise of the Saluvas; their position in the empire; the Bhamani and Orissa invasions; Saluva Narasinga; the character of his usurpation; his services to the empire; Narasa as *de facto* ruler; his son Narasimha II and general rebellion in the empire; accession of Krishna Devaraya: the condition of the Bahmani kingdom in the period of usurpation and after; wars against the Bahmani kingdom and the Raichur; the condition of his empire; rebellions in the empire and the last years of Krishna. Achyuta's restoration of order in the empire; character of his later administration; rise of Achyuta's brothers-in-law the elder and the younger Tirumala; Sadasiva; the rule of the brothers Rama, Tirumala and Venkata.

**XXII. Vijayanagar under the de facto rule of the brothers.**—Sadasiva the nominal ruler; relations with the Bahmani kingdom; condition of the distant south; "fishery coast" and Travancore; foundation of the Nayakship of Madura; the Portuguese; Talikota and its results; condition of the empire.

**XXIII. The later empire at Penukonda.**—The new empire at Penukonda; Tirumala; the successors of Tirumala; division of the empire; Sriranga emperor; his struggle against the advance of Muhammadans; the empire reunited under Venkata; disaffection in the southern provinces; wars against the Muhammadans; end of the viceroyalty of Seringapatam; foundation of Mysore; death of Venkata.

**XXIV. The decline and fall of the Vijayanagar empire.**—War of succession; the weakened condition of Vijayanagar; the provinces of the empire; Gingi, Tanjore, Madura, Mysore, and Ikkeri; the advance of the Mughals in the Dakhan, precarious

condition of the Vijayanagar empire; the last emperor, Sriranga; his struggle for a united empire; end of the empire.

XXV. *Madura and Mysore, the sole remnants of the empire.*—Madura and Mysore continue as remnants of the empire; Mah-rattas in the south; Shaji's conquests for Bijapur; occupation of Gingi and Tanjore; Sivaji's invasion of the south; Madura under the Nayaks; Mysore under Chikkadevaraya Odaiyar and his successors to the usurpation of Hyder Ali.

(8) URDU.

The course shall consist of:—

- (a) Prose books from different periods, including at least one modern work.
- (b) Poetry books from different periods, including at least one modern work.
- (c) Translation from prose and poetry books other than the set books, translation from English into Urdu to be made in an approved modern style.
- (d) History of Language and Literature.
- (e) Indian History—Muslim Period, or Arabic or Persian.

(9) ARABIC OR PERSIAN (MAIN).

The course shall consist of:—

- (a) Prose books selected from different periods.
- (b) Poetry books selected from different periods.
- (c) Translation from prose books other than the set books: translation from the set poetry books and from English into Arabic or Persian prose.
- (d) History of Language and Literature with special reference to the set books.
- (e) A selected period of early Muslim History.

The periods of History for Persian or Arabic may be one or other of the following:—

1. The four first Khalifas and the Umayyad Khalifate, excluding Africa and Spain.
2. The Abbasid Khalifate, excluding Africa and Spain and the wars of the Crusades.
3. The Muslim conquest of Egypt and Northern Africa until the fall of the Abbasid Khalifate and excluding the wars of the Crusades.
4. The Arab conquest of and rule in Spain.
5. The wars of the Crusades.

(b) ARABIC OR PERSIAN (SUBSIDIARY).

The course shall consist of the study of selected pieces from one poet of the classical period and selected portions from the works of one standard prose writer. There shall be one paper in the examination of three hours' duration which shall include pieces for translation from Arabic or Persian into the main language.

(10) ORIYA OR MARATHI.

The course shall be the same as for the Dravidian Languages, with the substitution of Guadian Grammar for Dravidian Grammar, and of the Early History of Orissa or the History of the Marathas respectively for Early South Indian History.

(11) GREEK OR LATIN.

The course shall consist of:—

- (a) Prescribed portions of the writings of the more important Greek or Latin authors.
- (b) Grammar of the language with reference to Indo-Germanic Grammar.
- (c) Greek or Latin Prose composition and translation of unprepared passages.
- (d) A general knowledge of Greek History to the death of Alexander, or of Roman History to the death of Trajan, with a more minute knowledge of some prescribed period.
- (e) A general knowledge of Greek or Roman Literature with a more minute knowledge of the authors of the prescribed books.

(12) FRENCH OR GERMAN.

The course shall consist of:—

- (a) The study of set books representative of various periods of French or German literature.
- (b) The History of French or German literature with special reference to the set books.
- (c) The history of the French or German language.
- (d) Translation from French or German into English, and of English into French or German.
- (e) Composition.

- (f) A period of European History with special reference to French or German History.

In the examination the subjects for composition shall be taken from the set books or shall relate to the periods of French or German literary or political history studied in the course. In the translation paper, the passages set for translation from French or German into English shall be specimens of modern French or German, not taken from the set books.

(13) HEBREW.

The course shall consist of:—

- (a) Set books.
- (b) Grammar and translation from and into Hebrew.
- (c) History of the Language and the Literature.
- (d) A selected period or periods of the History of the Jews.

**B. A. Degree Examination, 1931.**

(Revised Regulations)

PART I—ENGLISH.

*Shakespeare.*

*Hamlet: Much Ado about nothing.*

*Plays for General Reading:—*

Henry IV, Part I; Antony and Cleopatra; The Tempest.  
*Modern Poetry—*

Milton: Lycidas.

Wordsworth: Tintern Abbey.

Shelley: Adonais.

Browning: Andrea del Sarto.

Rosetti: The Blessed Damsel. Published in Pattern Poetry III.—Thomas Nelson & Sons; and the following selections from "A Third Book of Modern Poetry" Edited by H. Treble, (Macmillan & Co.).

No. II.—Bridges: There is a Hill.

No. V.—Drinkwater: The Carver in Stone.

No. VII.—Flecker: Gates of Damascus.

No. XIII.—Masefield: Fragments.

No. XV. Sturge Moore: Sent from Egypt.

No. XVII.—Watson: Lacrimae Musaram.

**Prose I—**

- (2) Lamb: *Essays of Elia*: Edited by A. H. Thompson,  
Cambridge University Press.  
(2) Johnson: *Prose selections in Johnson: Prose and  
Poetry*, (Oxford University Press).

**For Non-Detailed Study—**

Jane Austen: *Emma*.

**Prose II—**

- (1) Newman: *Literary Selections*. Longman's Green and  
Co., Indian University Edition.  
(2) Arnold: *Selections*. Edited by H. W. Rawlinson,  
Macmillan & Co.

**For Non-Detailed Study—**

- (1) Hardy: *Far from the Madding Crowd*.  
(2) *Selected English Short Stories*. Third Series--  
World's Classics.

PHYSICAL SCIENCE.

1931

Physics.

**Physics—**

- Wagstaff: *Properties of Matter* (Clive).  
Edser: *General Physics* (Macmillan).  
Poynting and Thomson: *Sound* (Griffin).  
Catchpool: *Sound* (Clive).  
Capstick: *Sound* (Cambridge University Press).  
Edser: *Heat* (Macmillan).  
Edser: *Light* (Macmillan).  
Hadley: *Electricity and Magnetism* (Macmillan).  
Brooks and Poyser: *Electricity and Magnetism* (Longmans).  
Whetham: *Experimental Electricity* (Cambridge University  
Press).  
Searle: *Experimental Elasticity* (Cambridge University  
Press).  
Allen and Moore: *Text-book of Practical Physics* (Mac-  
millan).

**Reference—**

- Porter: *Intermediate Course in Mechanics* (Murray).  
Searle: *Experimental Elasticity* (Cambridge University  
Press).

Poynting and Thomson: Heat (Griffin).

Clay: Treatise on Practical Light (Macmillan).

Watson: Practical Physics (Longmans).

*Chemistry—*

Barret, W. H.: Elementary Physical Chemistry (Ed. Arnold).

Lowry & Austins: Organic Chemistry (Macmillan).

Smith: Introduction to Inorganic Chemistry (Bell).

Senter: Outlines of Physical Chemistry (Methuen).

Thorp: History of Chemistry, 2 Volumes (Watts).

Caven: Quantitative Chemical Analysis Part I, (Blackie).

Thorp: Inorganic Chemical Preparations (Ginn).

*Reference—*

Partington: Text-book of Inorganic Chemistry (Macmillan).

Lowry: Historical Introduction to Chemistry (Macmillan).

Taylor: Practical Physical Chemistry (O. U. P.).

CHEMISTRY.

*Chemistry—*

Partington: Text-book of Inorganic Chemistry (Macmillan).  
Mellor: Modern Inorganic Chemistry (Longmans).

Caven and Lander: Systematic Inorganic Chemistry (Blackie).

Senter: Outlines of Physical Chemistry (Methuen).

Fenton: Outlines of Chemistry, Part I (Cambridge University Press).

Thorp: History of Chemistry, 2 Volumes (Watts).

Caven: Systematic Qualitative Analysis (Blackie).

Caven: Quantitative Chemical Analysis, Parts 1 and 2 (Blackie).

Thorp: Inorganic Chemical Preparations (Ginn).

Cohen: Practical Organic Chemistry for Advanced Students (Macmillan).

Taylor: Practical Physical Chemistry (O. U. P.)

Weston: Detection of Carbon Compounds (Longmans).

Perkin and Kipping: Organic Chemistry (Chambers).

Moureu: Fundamental Principles of Organic Chemistry (Bell).

Coward and Perkins: Exercises in Chemical Calculations (Arnold).

602 TEXT-BOOKS IN NATURAL SCIENCE FOR B.A. [APP.  
DEGREE EXAMINATION, 1931.

*Reference—*

- Lowry: Text-book of Inorganic Chemistry (Macmillan).  
Walker: Introduction to Physical Chemistry (Macmillan).  
Russell: Chemistry of Radio-active Substances (Murray).

NATURAL SCIENCE.

1931

BOTANY

*Books for reference—*

- Coulter, Barnes and Cowles: Text book of Botany.  
Ganong: Text book of Plant Physiology.  
Bower: The Living plant.  
Strasburger: Text-book of Botany.

ZOOLOGY.

1931

*Main*

*Theory—*

1. Parker and Hawswell: Text-book of Zoology—2 Vols. (Macmillan).
2. Shipley and MacBride: Text-book of Zoology—2 Vols. (Cambridge University Press).
3. Borradaile: Manual of Zoology (Oxford University Press).
4. Bourne (G. C.): Comparative Anatomy of Animals 2 Vols. (George Bell & Sons).
5. Graham Kerr: Evolution (Macmillan).

*Practical—*

1. Marshall: The Frog. (Macmillan).  
Marshall and Hurst: Practical Zoology (Smith Elder & Co.).

*Reference—*

1. Sedgwick (A): Student's Text-book of Zoology—3 Vols. (Swan Sonnenschein).
2. Lang (A.): Text-book of Comparative Anatomy—2 Vols. (Macmillan).
3. Weidersheim: Elements of the Comparative Anatomy of Vertebrates (Macmillan).
4. Borradaile: Animal Life and its Environment (Henry Frowde and Hodder and Stoughton).
5. Lull: Organic Evolution: (Macmillan).

6. Kingsley Comparative Anatomy of Vertebrates.
7. H. Reynolds: Vertebrate Skeleton (C. U. P.):
8. Holmes: Biology of the Frog.

*Subsidiary.*

*Theory—*

1. Shipley and MacBride: Text-book of Zoology (Cambridge University Press).
2. Borradaile: Manual of Zoology (Oxford University Press).
3. Kerr: Organic Evolution (Macmillan).
4. College Zoology: Hegner—Macmillan & Co., New York.

*Practical—*

1. Marshall: The Frog (Macmillan).
2. Marshall and Hurst: Practical Zoology.

*Reference—*

1. Lull: Organic Evolution (Macmillan).
2. Metcalfe: Evolution.

**PHILOSOPHY.**

1931

**Text-books recommended—**

- I. *Logic and Theory of Knowledge—*
  1. Indian—Tarka Samgraha.
  2. European—First 4 lectures of Bosanquet's *Essentials of Logic* along with Part III of Creighton's *Logic*.
- II. *Psychology—*

R. S. Woodworth's *Psychology—A study of Mental Life*: (Methuen).
- III. *Ethics—*

Muirhead's *Elements of Ethics*.
- IV. *Philosophical Work Prescribed—*

European Philosophy—Berkeley's *Principles of Human Knowledge*.

Indian Philosophy—Sankhya Karikas of Iswara-Krishna.

**HISTORY.**

GROUP (v).

**RELATED SUBJECTS.**

1931

**DRAVIDIAN LANGUAGES**

Early South Indian History, the part prescribed is Chapters I to XVIII of the Syllabus, vide Pages 598-596.



### SANSKRIT.

Early History of India to the beginning of the present era  
(i.e., Christian era).

*Books recommended—*

E. J. Rapson: Ancient India (Cambridge University Press).

V. A. Smith: Early History of India.

Dr. Macdonell's 'India's past'.

### MARATHI.

The History of the Marathas up to 1720.

*Books recommended—*

M. G. Ranade : Rise of the Maratha Power	{ New Kitab khana, Poona City or Messrs. Parachure Puranick & Co, Madhav Bhag, Bombay.
Grant Duff : History of the Marathas (Calcutta, 1912)	

### ORIYA.

The History of Orissa under Native and Muhammadan Rule.

*Book recommended—*

W. W. Hunter: Orissa.

### LATIN.

Same as for 1930 under the old Regulations.

### FRENCH:

European History—1715—1815.

### ARABIC AND PERSIAN

The first four Caliphs and the Umayyads

### URDU.

The later Three Mughals.

### SANSKRIT.

#### PART II.

#### 1931.

1. Kālidāsa—Sākuntala (whole).
2. Kālidāsa—Mēghasamdesa (whole).
3. Bāna—Harsacarita—The third nechvāsa only.
4. Dandin—Kāvyaḍarsa—The first pariccheda only.

In connection with the History of Sanskrit Literature, the Vedic period being omitted, the following books are recommended for consultation:—

Dr. A. B. Keith—Classical Sanskrit Literature.

Dr. A. B. Keith—Sanskrit Drama.

Dr. A. A. Macdonell—History of Sanskrit Literature, omitting the Vedic period.

Note:—All these Sanskrit and English books can be had either through the Oriental Books-Supplying Agency, 15, Shukrawarpet, Poona or through the Proprietor, the Punjab Sanskrit Book Depot, Lahore.

#### PART III—GROUP (v)

(a) A. A. Macdonell : Védic Reader, I to VIII hymns.

Aitaréya-brahmaṇa, VIII, ii, iii (Nirnaya Sagara Press, Bombay).

Gautama Dharina Sūtra—Prasna I—Text only, Bibliotheca Sanskrita (Government Press, Mysore).

Cchāndōgyōpaniṣad—Adhyaya VII.

(b) Kṛṣṇa-Miśra : Prabōdhacandrōdaya } (Nirnaya Sagara Press,  
Bāṇa : Harṣacarita, Ucchvāsa III } Bombay).

Patanjali : Mahabhasya I, i, i.

Māhābhārata, Sūtiparva—Adhyāyas 177 to 182 (Madhva Vilas Book Depōt, Kumbakonam).

Nīlakantha Vijaya by Nīlakantha Dīksita, Ucchvāsa I only (The Proprietor, Balamanerama Press, Mylapore).

Bhavabhūti-Uttararāmacarita.

(c) History of Sanskrit Literature:—

Dr. Macdonell's "History of Sanskrit Literature" and "India's Past" are recommended for study.

#### RELATED LANGUAGE.

Bhavabhūti-Uttararāmacarita.

Raghuvamśa-Cantos IV and VI.

#### MARATHI.

1931.

#### PART II.

*For Detailed Study—*

*Prose—*

Shivchhatrapati's life by Sabhāsada.

**Poetry—**

**Krishna Vijaya** (Uttarardha) by Moropant - Ch. I to X.  
Nāmsudhā by Waman Pandit, edited by B. A. Bhide, B.A.  
Jnaneshwari—Ch. XII.

**Drama—**

Shakuntalā by L. G. Lele.

**For Non-Detailed Study—**

Nibandha Sangraha Grantha II—Essays Nos. 1, 2, 3, 7, 8.  
and 9.

For History of Language and Literature the following books  
are recommended for consultation:—

Bhāve's Mahārāstra Saraswata.

Marathi Bhashechi Ghatana by R. B. Joshi.

*N.B.*—All these books can be had from New Kitabkhana,  
Dhondhwarpet, Poona City, Chitrashala Press, Poona City, or  
from Messrs. Parachure Puranik and Co., "Mādhav Bāg"  
Bombay.

**PART III—GROUP (V).**

**Poetry—**

Rasatarangini by S. V. Pendse, B.A., etc., pages 398—456.

Krishna Vijaya by Moropant : (Uttarārdha) Chapters 50—57.

**Drama—**

Sakuntalā by Laxman Shastri Lele.

**Prose—**

Vyākhyāne by Sir N. G. Chandāvarkar.

Life of Thorale Shahu Mahārāj by M. R. Chitnis.

Nibandha Sangraha—Grantha Dusarā—Sri Laxminarayan Press  
Bombay, pages 1—258.

**ORIYA.**

**1931.**

**PART II.**

**For Detailed Study—**

**Prose—**

Prabandha Prakasa by Ratnakara Patil.

Itihasa Prasanga by C. Acharya.

**Poetry—**

Rasakollala by Deenakrishna Das.

**Drama—**

Pratap Natak by Raja of Chikiti.

III] TEXT-BOOKS IN HINDI FOR 'B. A. DEGREE' 607  
EXAMINATION, 1931.

*For Non-Detailed Study—*

Arya Jeevana by Nilakantho Das.

For History of Language and Literature the following books are recommended for consultation:—

Utkala Bhashara Itihāsa by B. Misra.

Utkala Sāhityara Itihāsa by T. Ratho.

Utkala Sāhityara Itihāsa by B. Misra.

N.B.—All the above books can be had from "The Mukur Press, Cuttack," or from "The Trading Company, Cuttack," or from "The Students' Stores, Berhampore, (Ganjam District)."

PART III (Group V)

Pāñcālī Paṭāpaharāna, by Sri Radha- moḥan Rajendra Deb.	} (Trading Company, Cuttack)
Kōṇurkē (Mayadevi, pp. 67 to the end), by Neelakantho Das.	
Vidagdha Cintāmani (Canto 78, pp. 215- 218), by Abhimanyu Samanta Simhāra.	
Bhāgavata (Pāñcama Skandha), by Jaganath Das.	

Unmatta Raghava, by Pandit Gopinath Nanda Sarmā (Utkal Sahitya Press, Cuttack).

Kṣakindhyā Kānda,—Ramayan, by Kṛṣṇa Charan Patnaik (Printing Company, Cuttack).

Vibidha Prabandha, by Viswanath Kar (Utkal Sahitya Press, Cuttack)

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PART II.

*For Detailed Study—*

*Prose—*

Lokhanjali by Pandit Mahavir Prasad Jee Divedi, published by Hindi Pustak Agency, Harrison Road, Calcutta.

*Poetry—*

Padya Samuchaye by Kamta Prasad, published by Indian Press, Ltd., Allahabad.

*Drama—*

Chandrasah Maitli Sharan Gupta, published by Sahitya Sadan, Chirgaon, Jhansi, U.P.

*For Non-Detailed Study—*

Charitra Chintan by Chabinath Pandey, B.A., LL.B., published by Hindi Pustak Agency, Harrison Road, Calcutta.

**Bhagavan Budha Dev**, published by Ganga Pustak Mala Karyalaya, Aminabad Park, Lucknow.

For History of Language and Literature the following books are recommended for consultation:—

**Bhasha Vigyan** by N. Sanyal, M.A., published by Indian Press, Limited, Allahabad.

**Rachara Chandradaya** by Ramlochan Sharam, published by Hindi Pustak Bhandar, Darbhanga.

**Keay's History of Hindi Literature.**

**Sketch of Hindi Literature.**

**Mishrabandhu Vinoda**, Vol. I, Introduction.

### **LATIN.**

**1931**

#### **PART II.**

**Virgil: Aeneid II.**

**Horace: Odes III, 1-20.**

**Cicero: De Officiis III.**

**Tacitus: Annals, I.**

#### **PART III.**

**Group (v), New Regulations and  
Part II, Group (vi), Old Regulations.**

**Virgil: Aeneid II**

**Horace: Odes III, 1-20.**

**Juvenal: Satires VII and X.**

**Livy: History Book V.**

**Cicero: De Officiis.**

**Tacitus: Agricola and Germania.**

### **FRENCH.**

**1931**

#### **PART II.**

**Faguet: Ce que disent les Livres.**

**Hémond: Maria de Chapdelaine.**

**Corneille: Le Cid.**

**Molière: Le Malade Imaginaire.**

**III] TEXT-BOOKS IN ARABIC, PERSIAN AND URDU 609**  
**FOR B.A. DEGREE EXAMINATION, 1931.**

**PART III.**

Group (v), New Regulations and  
Part II, Group (vi), Old Regulations.

Faguet: *Ce que disent les Livres.*

Hémond : *Maria de Chapdelaine.*

Cornaille: *Le Cid.*

Molière : *Le Malade Imaginaire.*

De Tocqueville: *L'Ancien Régime*

*The Oxford Book of French Verse.*

**ARABIC.**

**1931**

**PART II.**

1. *Mājani-'ul-Adab*, Volume 3 —First half.
2. *Tarikhul Adābil Lughat* by Daraz.
3. *Qawa'idul Lughatil' Arabiyyah.*

*Note:—History of Pre-Islamic Arabic Literature may be studied.*

**PERSIAN.**

**PART II.**

**1931.**

*Anwārī Subayhī* 1st and 2nd Chapters by Ja'fari.

*Diwāni-Hāfiz-Radīf Dāl.*

*Misbāhui Qawaid* by Ja'fari.

*Note:—History of Persian Literature during the rule of Tribal Kings. (850—1000 A.D.)*

**URDU.**

**PART II.**

**1931.**

*Mazamin-i-Farhat.*

*Intikhabul-Ghazaliyyati-Zauq* by Shah Sulaymān.

*Jalaluddin Khawrzim Shah* by Sajjad Hyder.

*Asasi-Urdu* by Ja'fari.

*Note:—From Wali to Mir and Sawda in History of Urdu Literature by Saksina.*

**PART III—Gr. (v).**

**1931.**

**ARABIC.**

*Rijalul Mu'allaqatil 'Ashar* (Imraul Qays, Zubayr and 'Antarah).

610 TEXT-BOOKS IN PERSIAN, URDU AND TAMIL [APP.]  
FOR B.A. DEGREE EXAMINATION, 1931.

**Máqámát-i-Ba'd'uzzamán**—First 14 maqámahs.

**3aqtuz Zand** 1st 15 poems.

**The Qur'an**—Sura-i-Luqmán, Táhá and Yúsuf.

The following books are recommended for study

**Palmer's Arabic Grammar.**

**Literary History of the Arabs** by Nicholson.

**Husnut Tawasul ila Sana'at it-Tarassul.**

PERSIAN.

**Sarmāy-i-Dūnish** by Jáfari.

**Sih Natthar Zahúri**—First Nathar.

**Masnavi Maulana Rúmi**—(First Daftar 1st half).

**Khizinatul Fawaid**, Part II (Grammar, etc.),

URDU.

**Hayáthi-Jávid**, Part II excluding appendices.

**Abi-Hayáth** excluding introduction.

**Musaddasi-Hálli**

**Intikhábi-Kalámi-Mír.**

**Muqaddima-i-Shi 'ro Sha 'iri.**

The following books are recommended for study:—

**Qawaidi-Urdu.**

**Tashilul Balaghat.**

**History of Urdu Literature** by Saksina.

TAMIL.

PART II

1931.

(Selections to be published by the University.)

Poems—

1. Pattuppattu Mullairpattu (பத்துப்பாட்டு முல்லைப்பாட்டு).
2. Piranavuru (பிறநாவுறு) . 20 stanzas (to be selected).
3. Kalithogai (கலித்தொகை)—10 stanzas (to be selected).
4. Kural (குறள்)—10 Chapters (to be selected)
5. Jeevakachintamani-Govindavār Ilambakam (ஜீவக சிந்தாமணி-கோவிந்தையார் இலம்பகம்).
6. Kambaramayanam-Māyājanakappadalam (கம்பராமாயணம்-மாயாஜனகப்படலம்).

7. Periyapuranam—Tirukkuripputthonda Nayanar Puranam (பெரியபுராணம்—திருக்குறிப்புத்தொண்டநாயனார் புராணம்).
8. Maduraikkalan.bakam (மதரைக்கலம்பகம்)—40 stanzas to be selected).
9. Kanchippuranam—Naltuppadalam—Tinaimayakkam (காஞ்சிப்புராணம், நாட்டுப்படலம்—தினையக்கம்).

*Detailed Prose—*

1. Azhvargal Kalanilai (ஆழ்வார்கள் காலநிலை) —(up to page 94 inclusive) by M. Raghava Ayyangar, Tamil Lexicon Office, Madras.
2. Manonmaniyam (மனோமனியம்)— Acts, III to V. by late Prof. Sundaram Pillai of Trivandrum.

*Non-Detailed Prose—*

1. Essay on Tamil by T. Chelvakesavaraya Mudaliyar. (Alagan & Co., Perambur, Madras.)
2. Palantanil Perumakkal (பழந்தமிழ்ப் பெருமக்கள்).—by S. Somasundara Desikar, Tamil Lexicon Office, Madras.

**PART III—Gr. (v).**

*Poetry, Volume I—Part I.*

Pattuppattu-Pattinathuppalai, (பத்துப்பாட்டு) பட்டினத்துப் பாலை, pp. 28 to 39.

Pathitruppatthu. (பதிற்றுப்பத்து), pp. 48 to 59.

Purananuru, (புறநானூறு) pp. 72 to 96.

Tirukkural, (திருக்குறள்) Chapters 98 to 108. pp. 220 to 229.

Silappathikaram, (சிலப்பதிகாரம், இந்திரவிழவுரெடுத்த காதை, சழலாடு காதை, சனஞ்சிற்றமுரைத்த காதை)— pp. 266 to 283.

Purapporul Venbamalai (புறப்பொருள்வெண்பாமாலை) pp. 377 to 383.

*Poetry, Volume II—Part II.*

Kamba Ramayanam, (கம்பராமாயணம்—ஆரண்யகாண்டம்) pp. 69 to 106.

Kandapuramam, (சந்தபுராணம்—குமார்க்கடவுள் திருவவதாரம்) pp. 232 to 238.

Tiruviruttam, (திருவிருத்தம்) pp. 283 to 289.



**Prose.—**

Cholan Karikalan (சோழன் கரிகாலன்) by L. Ulaganatha Pillai.

Kambar (கம்பர்) by T. Chelvakesavaroya Mudaliyar.

Tamil Moli Varalaru, (தமிழ் மொழி வரலாறு)  
by V. G. Suryanarayana Sastri.

**Grammar.—**

Nannul (நன்னூல்)

Solladikaram, Sankaranamasivaya's Commentary. (சொல்லதி  
காரம், சங்கர சமச்சிவாயர் உரை)

**TELUGU.**

1931.

**PART II.**

*University Selections.*

**Poetry—**

Part I. 46. Draupadi Haranamu. Saindhava Bhangamu, 118 verses.

Part II. 26. Panchanali Nalavaranamamu, 30 verses.

Part III. 38. Manjuvani Dutyamu, 68 verses.

**Modern Poetry—**

i. Meghasandesamu, by Vaddadi Subbaraya Kavi, 121 verses.

ii. Sree Singara Kadambari, by Ch. Narasimha Sastri  
Canto, 5, Purvabhagamu, 1 to 170.

**Drama—**

i. Naganandamu, by Vedam Venkatraya Sastrulu.

**Prose—**

i. Bhagavatamu by Sathaghantamu Venkatarangayya  
Sastri—1st Skandham, pages 1 to 81.

ii. Parasurama Vijayamu, by Korada Ramachandra Sastri.

iii. Andhra Vachana Bharatamu by Kaluve Veera Raju—  
Sabhaparyamu published by N. K. Venkatesam, pages  
112 to 216.

**Non-Detailed—**

i. Rajarishi by G. Satyagodaveri Sarma.

ii. Veera Bai by S. Bhashyakacharyulu.

*Grammar.*—

Syllabus will be published later.

*Prosody and Poetics*—

- i. Margopadesika by V. Chinna Seetarama Sastri.
- ii. Balavyakaranamu, in the light of Gupthartha Prakasika.
- iii. Kavijanasrayamu.
- iv. Narasabhupaleeyamu.

PART III—GROUP V.

*Poetry*—

- i. Parijatapaharanamu by Mukku Timmanna, cantos 2, 3 and 4.
- ii. Vasu Charitramu by Ramaraja Bhushana, canto 3.
- iii. Yayati Charitramu by Ponnaganti Telaganaryudu, canto 2.
- iv. Harischandra Nalopakhyanam, canto 3.

*Drama*—

- i. Venisamharamu by Vaddadi Subbaraya Kavi.
- ii. Sri Ramuni Vanavasa Natakamu by Janamanchi Seshadri Sarma.

*Grammar, Prosody and Poetics*—

Syllabus will be published later.

*Books recommended for study.*

(a) *Literary Criticism*—

Vasu Charitra Vimarasanamu by V. Chinna Seetarama Sastrulu.

(b) *History of Literature*—

- i. Andhra Vangmaya Charitramu by Vanguri Subba Rao.
- ii. Lives of the Poets, by Veeresalingam Pantulu.
- iii. Andhra Kavi Jeevitamulu by Gurazada Sree Ramamurti.

(c) *History of Language*—(as per syllabus, vide pages 586-588.

Bhashotpatty Kramamu by Korada Ramakrishnayya.

(d) *Grammar, Prosody and Poetics*—

- i. Margopadesika by V. Chinna Seetarama Sastri.
- ii. Balavyakaranamu—In the light of Gupthartha Prakasika.
- iii. Proudha Vyakaranamu.
- iv. Appa Kaviyam, 3rd Canto.
- v. Kavyalankara Chudamani, cantos 1 to 8.
- vi. Desaroopakamu, by Malladi Suryanarayana Sastrulu.

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**KANARESE.**

**1931**

**PART II.**

- (1) Selections published by the University, Part II, Pages 354 to 398 (Ramaiswamedha).
- (2) Sūnti Purāṇa by Ponna—Chapters 1, 2 and 3, (People's Printing and Publishing House, Triplicane, Madras).
- (3) Gaḍayuddha Nataka by B. M. Srikanthaiya, M.A., B.L., (Secretary, Central College Karnataka Sangha, Bangalore City.)
- (4) Durgēsha Nandini by B. Venkatachar (M S. Rao & Co., Bangalore).
- (5) Karnāṭika Kavi Charite by Rao Bahadur R. Narasimhachar, M.A., Vol. III, (pp. 1—163), 18th Century. (Author, Malleshwaram, Bangalore).

**PART III—(GROUP V).**

(i) Selections published by the University—Volume II, Chandraprabha Purāṇa (pp. 103 to 146).

(ii) Ramaswamedha (modernized), Part I, by M. Shankara Bhatta (Bala Sahitya Mandala, Mangalore.)

(iii) Vidyullata by N. Tirumalamma (Sati Hitaishini Granthamala Office, Nanjangud).

(iv) Sakuntala Nataka by Basappa Sastri (M. S. Rao & Co. Avenue Road, Bangalore City.)

(v) Kavi Charita by Rao Bahadur R. Narasimhachar, M. A., Volume II, Introduction and Poets of the 16th Century (Author, Malleshwaram, Bangalore).

(vi) Sasana Padyamanjari by Rao Bahadur R. Narasimhachar, M.A., (Malleshwaram, Bangalore).

(vii) Apratima Vira Charite by Tirumalarya (Kavya Kalanidhi Office, Mysore).

(viii) Sringara Ratnakara by Kavi Kama (Kavya Kalanidhi Office, Mysore).

(x) Sabdamani Darpana by Kesiraja (B. E. M. Book Depot, Mangalore).

(xi) Chhandassu by Nagavarma (B. E. M. Book Depot, Mangalore).

(xii) Primrose Vijaya by S.G. Govindaraja Ayyangar (M.S. Rao & Co., Avenue Road, Bangalore).

**III] TEXT-BOOKS IN MALAYALAM FOR B.A. DEGREE 615**  
**EXAMINATION, 1931.**

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**MALAYALAM.**

**1931.**

**PART II.**

**Prose—**

*(Non-detailed) for Paper I.—*

1. *Kathathraprabhavam* by A. Narayana Poduvailayar.
2. *Pracheena Bhārathathila Viewa Vidyalayangal* by P. Anujan Achan—Ramanuja Printing House, Trichur.

**Poetry—**

*(Detailed) for II Paper.—*

1. *Krishnagathia—Rugmani Swayamvaram* by Cherusseri—Selections published by the University for B.A., Volume I, Part III.

*Kirmmeeravadham Kathakali* by Kottayath Thampuran, with introduction and notes by P. Krishnan Nair (Siromani), published by Vidyavinodini Press, Trichur.

*Kesaveeyam—9th Sargam—B. V. Book Depot, Trivandrum—Selections published by the University for B.A., Volume II, Part III.*

**Prose—**

*Vinodini-Novel—by V. Unni Krishnan Nair, B.A.,—Mangalodayam Press, Trichur.*

**PART III—Gr. (v).**

**Poetry—**

1. *Bhishma Parvam—Maha Bharatam* by Ezhuthachan—Selections published by the University for B.A. Vol. II, Part I.
2. *Kirmmeeravadham—Kathakali* by Kottayath Thampuran (By publisher).
3. *Umakeralam—7 and 8 Sargams.* By Ullūr S. Parameswara Ayyar, M.A., (R.V. Book Depot, Trivandrum).

**Drama—**

*Uthara Rama Charitham* by C. Chathukutty Mannadiar (Saraswati Vilasam Book Depot, Trichur).

**Prose—**

1. *Marthanda Varma* by C. V. Raman Pillai, B.A. (B. V. Book Depot, Trivandrum).

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2. Sarada—Part I, by O. Chandu Menon (Published by K. Madhava Menon, B.A., B.L., Vakil, Chalapuram, Calicut).
3. Ramacharitam—5 to 9 Patalams, both inclusive (B. V. Book Depot, Trivandrum).
4. Kannassa Ramayanam—Balakandam. (The edition published by K. Parameswaran Pillai, M.A., Chief Lecturer in Sanskrit, Maharaja's College of Arts, Trivandrum).
5. Krishnagatha—Soubhadrika Katha (Mangalodayam Press, Trichur).

## APPENDIX IV

### B.A. (HONOURS) DEGREE EXAMINATION

#### SYLLABUS.

##### (1) Branch (i)—Mathematics—B.A. (Hons.)

It is hereby notified that the following is the list of subjects from which special subjects are to be selected under each of the divisions specified in Chapter XXXIV, Regulation 16 (1) (c).

*Note.*—The Board of Studies may from time to time add to the list or exclude subjects from the list, either temporarily or permanently.

##### 1. *Geometry*—

- (1) Advanced Projective Geometry.
- (2) Non-Euclidian Geometry.
- (3) Higher Plane Curves.
- (4) Differential Geometry.

##### 2. *Algebra*—

- (1) Finite Groups and Substitutions.
- (2) Invariants.
- (3) Statistics including Probabilities and Errors of Observation.

##### 3. *General Theory of Functions*—

- (1) Functions of real variables.
- (2) Theory of Uniform Functions of a complex variable and integral functions.
- (3) Function of a complex variable after Riemann including Riemann's surfaces.

##### 4. *Differential Equations*—

- (1) Linear Differential Equations.
- (2) Partial Differential Equations.

##### 5. *Special Functions*—

- (1) Elliptic Functions.
- (2) Functions of Harmonic Analysis.

#### B. Sc. (Hons.)

It is hereby notified that the following is the list of subjects from which special subjects are to be selected under each of the divisions specified in Chapter XXXV, Regulation 9 (c).

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EXAMINATION.**

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*Note.*—The Board of Studies may from time to time add to the list or exclude subjects from the list. either temporarily or permanently.

**1. Dynamics—**

- (1) Advanced Rigid Dynamics.
- (2) Theoretical Dynamics.

**2. Astronomy—**

- (1) Planetary and Lunar Theories.
- (2) Physical and Practical.

**3. The Potentials.**

**4. Elasticity.**

**5. Hydrodynamics and Sound—**

- (1) Irrational motion in liquids.
- (2) Propagation of sound in gases.

**6. Heat—**

- (1) Conduction of Heat.
- (2) Thermodynamics.
- (3) Kinetic Theory of gases.

(1) GENERAL

*Including Pure Geometry and Analytical Geometry of two  
and three Dimensions:—*

*(a) Geometry of Two Dimensions.—*

The metrical properties of the point, the straight line, the circle, the parabola, the ellipse and the hyperbola treated by pure geometric methods, by means of Cartesian co-ordinates, polar co-ordinates and homogeneous co-ordinates (chiefly areal and trilinear).

Cross Ratios, Harmonic Section, Involution ranges and pencils. Perspective. Principle of duality. Reciprocation with respect to conics. Line Co-ordinates, application of tangential equations to conics. The method of projection, considered from the pure geometric point of view, its analytic basis. The principle of continuity, imaginary points and lines. Projective properties of conics. Simple geometric applications of invariants of conics.

*(b) Geometry of Three Dimensions*

The line, the plane and the regular solids treated by pure geometrical methods.

*Analytical Geometry of three dimensions with Cartesian Co-ordinates.*—The Straight line, the Plane, the Sphere, the Cone, the Quadrics, their plane sections and generating lines. Con-focal Quadrics. The reduction of the general equation of the second degree.

*A. Books for Study—*

1. Askwith: Pure Geometry.
2. W. P. Milne: Projective Geometry.
3. Smith: Conic Sections.
4. Askwith: Analytical Geometry of the Conic Sections.
5. C. Smith: Solid Geometry.
6. R. J. T. Bell: Co-ordinate Geometry of three Dimensions.
7. Hall and Stevens: School Geometry, Part VI.
8. Nixon: Geometry in space.

*B. Books for Reference—*

1. C. V Durell: Plane Geometry for Advanced Students.
2. J. W. Russell: Pure Geometry.
3. Milne: Homogeneous Co-ordinates.
4. Salmon: Conic Sections.
5. Frost: Solid Geometry.

(2) ALGEBRA AND THEORY OF EQUATIONS.

Inequalities and Limits. Convergence and divergence of Series and of Infinite Products. Binomial and Exponential Theorems. Logarithmic series. Summation of series. Continued fractions, simple and recurring; indeterminate equations. Theory of numbers. Elementary propositions in Probability. (Standard as in C. Smith's Algebra).

*Theory of equations.*—Relations between the roots and co efficient. Symmetric functions of the roots, transformation of equations; binomial and reciprocal equations; properties of derived functions. Rolle's theorem. Location of the roots. Sturm's theorem. Algebraical solution of cubic and biquadratic equations: solution of numerical equations. Horner's method. Graphical solution of equations. Determinants and Elimination. (Standard as in Burnside and Panton).

(3) PLANE TRIGONOMETRY.

Fuller treatment of the B.A. Course. Properties of triangles and quadrilaterals. Complex Numbers. De Moivre's Theorem and Applications. Factorisation, Infinite series, convergence of complex series. The Power series. Trigonometrical expansions. Determination of  $\pi$ . Summation of Series, Elementary properties of hyperbolic functions, Convergence



of Infinite Products. Expression for the sine and cosine as infinite products.

(Standard as in Loney's Trigonometry and treatment as in Hobson's Plane Trigonometry.)

#### (4) MATHEMATICAL ANALYSIS.

*including the Differential and Integral Calculus and Differential Equations:—*

##### 1. Preliminary

Irrational numbers, simple notions as to their genesis obtained from the intuitional properties of the straight line. The linear continuum. Infinite sequences, limiting points, upper and lower limits. General principle of convergence. General idea of a function of a real variable, the elementary functions and their graphical treatment. Limits of functions of a continuous variable, continuity of functions, properties of continuous functions. Inverse functions, proof of existence when original function is steadily increasing or decreasing.

##### 2. Differential and Integral Calculus.

Functions of one real variable. Derivatives, general theorems and rules for differentiation, repeated differentiation, Leibnitz's theorem, general theorems concerning derivatives. Rolle's theorem, mean value theorem. Geometrical applications of derivatives. Integration as the operation inverse to differentiation, standard forms and processes of integration. The general mean value theorem of the differential calculus, applications to maxima and minima, to evaluation of limits, and to contact of plane curves. Envelopes, Curvature. Taylor's series, convergence of the standard Taylor series. Integration of bounded functions according to Riemann, integrability of continuous functions and monotonic functions, the fundamental theorem of the integral calculus. The first and second mean value theorems of the integral calculus. Functions defined by definite integrals, their continuity, differentiation and integration. Applications of definite integrals.

Functions of several real variables, continuity, Implicit functions, idea of their existence (without proof). Partial derivatives, differentiation of implicit functions and composite functions, Euler's theorem on homogeneous functions, Taylor's theorem for functions of several variables, simple applications to maxima and minima, and to the finding of singular points and asymptotes of algebraic curves. Double integrals, line integrals, surface integrals, and triple integrals—evaluation in simple cases. Green's theorem. Geometric applications of multiple integrals.

Simple instance of functions of a complex variable Cauchy's theorem (proof by use of Green's theorem),

### 3. Infinite Series and Infinite Integrals.

Series of positive terms. Simpler tests of convergence. Series of positive and negative terms, Abel's and Dirichlet's tests. Absolute convergence, effect of change of order of terms on sum. Absolutely convergent double series. Multiplication of absolutely convergent series.

Series of variable terms. Uniform Convergence, Weierstrass's M-test, chief properties of uniformly convergent series as regards continuity, differentiation and integration. Fundamental properties of power series, standard power series. Fourier series of bounded functions with a finite number of maxima and minima and a finite number of discontinuities. Infinite products, the standard infinite products.

Infinite integrals. Functions defined by infinite integrals. Uniformly convergent integrals, their continuity, sufficient conditions for differentiating and integrating under the sign of integration, simple applications to the evaluation of infinite integrals.

### 4. Differential Equations

(A) Ordinary Differential Equations involving two variables.—

Formation of differential equations, character of solutions, geometrical meaning of differential equations.

*Equations of first order.*—Variables separable, linear equation. Bernoulli's equation, homogeneous equation, one variable absent,  $Mdx + Ndy = 0$ , integrating factors and their discovery in the simpler cases. Equations of  $n$ th degree that can be resolved into component equations of 1st degree, equations solvable for  $x$  or for  $y$ , Clairaut's form. Singular solutions, the  $p$ - and  $c$ - $\Delta$  discriminants, geometric interpretation.

Linear equations with constant coefficients; Euler's linear equations. Exact equations.

The equations  $y(x) = f(\Delta(x))$ ,  $y(n) = f(y)$ ,  $y(n) = f\{y(n-1)\}$ ,  $y(n) = f\{y(n-2)\}$  Depression of order when one variable is absent.

*Equations of second order.*—The complete solution in terms of known integral relation between integrals.

Geometric applications; finding of curves  $\Delta$  with given properties, trajectories.

(B) Ordinary Differential Equations involving more than two variables:—

Simultaneous linear differential equations, the equation  $\frac{dx}{P} = \frac{dy}{Q} = \frac{dz}{R}$  and its geometrical interpretation. Total differential equations (with three variables), the condition of integrability, geometric interpretation of the equation and its solution.

**(C) Partial Differential Equations :—**

Their derivation, classification of integrals of a partial differential equation, geometric interpretation. Lagrange's equation  $Pp + Qq = R$ , Charpit's method. The standard forms  $\psi(p, q) = 0$ ,  $\psi(z, p, q) = 0$ ,  $\phi(x, p) = \psi(y, q)$  and  $z = px + qy + \phi(p, q)$ .

*Standard as in the following books :—*

1. H. Lamb: Infinitesimal Calculus.
2. Gibson: Elementary Treatise on the Calculus.
3. Murray: Introductory Course in Differential Equations.
4. Carslaw: Fourier Series.
5. Edwards: Differential Calculus.

*Books for Reference—*

1. G. H. Hardy: Pure Mathematics.
2. Goursat-Hedrick: Mathematical Analysis, Vol. I.
3. Wilson: Advanced Calculus.
4. Chrystal: Algebra, Vol. II.
5. Bromwich: Infinite Series.
6. Forsyth: Treatise on Differential Equations.
7. Boole: Differential Equations.
8. Williamson: Differential Calculus and Integral Calculus.
9. Jordan: Cours d'Analyse.
10. Picard: Traite d'Analyse.
11. Piaggio: Differential Equations.

**(5) DYNAMICS OF PARTICLE.***Preliminary*

Velocity and acceleration, relative motion, angular velocity, laws of motion, impulsive forces Units.

*Rectilinear Motion*

Equations of motion, simple harmonic motion constant disturbing force, periodic disturbing force, damped and forced oscillations: various laws of resistance.

*Motion in two Dimensions*

(1) *Cartesian Co-ordinates.*—Composition of simple harmonic motions, motion of a projectile in vacuum, in a resisting medium, different laws of resistance. Equation of energy. Rotation axes.

(2) *Polar Co-ordinates.*—Velocity and acceleration in polar co-ordinates. Central forces: differential equation of

orbit, orbits for various laws of force. Disturbed circular orbit; apsides. Law of the inverse square; construction of orbit; hodograph, time of describing an arc; Kepler's law, correction to 3rd law; perturbations.

(3) *Constrained Motion*.—Tangential and normal accelerations. Motion on a fixed smooth or rough curve. Motion in a smooth or rough cycloids, motion in a circle, time of describing an arc, series for time of oscillation; small oscillations of simple pendulum under resistance proportional to square of velocity. Motion on a revolving curve; motion of a particle in a revolving tube.

(4) *Motion of two or more Particles*.—Principles of conservation of energy and of angular momentum. Two particles connected by a string passing over a pulley. Impulses, motion of a chain, motion of varying mass.

#### (6) DYNAMICS OF A RIGID BODY.

Moments and products of inertia; momental ellipsoid, momental ellipse, equimomental systems. Principal axes. D'Alembert's principle, general equations of motion. Independence of translation and rotation. Impulsive forces.

*Motion about a fixed axis*.—Fundamental theorem. The compound pendulum, centre of oscillation. Torsional oscillations, bifilar suspension. Pressures on the fixed axis, bodies, symmetrical and not symmetrical. The ballistic pendulum. Impulsive forces. centre of percussion.

*Motion in two Dimensions*.—Finite forces. General principles of conservation of energy and of linear and angular momentum. Systems with one degree of freedom, oscillations about equilibrium. Impulsive forces, impact of a rotating sphere on the ground. Lagrange's equations, systems of two degrees of freedom, double pendulum, oscillations about equilibrium.

*Standard as in the following books:—*

Lamb's Dynamics.

Loney's Dynamics.

Besant and Ramsay's Dynamics.

Williamson and Tarleton's Dynamics.

*Books for Reference—*

Love's Theoretical Mechanics.

Routh's Dynamics of a Particle.

Tait and Steel's Dynamics.

Routh's Elementary Rigid Dynamics.

### (7) STATICS.

*Forces at a point.*—Parallelogram of forces. Parallelepiped of forces. Geometric and analytical reduction of forces acting at a point. Conditions of equilibrium of such forces. Friction. Equilibrium of a particle on smooth and rough curves and surfaces.

*Forces in one plane.*—Parallel forces. Theory of moments of forces and of couples; reduction of coplanar forces and conditions of equilibrium of such forces. Actions at smooth and rough hinges and joints. Principle of virtual work as applied to coplanar forces. Astatic equilibrium.

*Graphical Statics.*—Centres of gravity of arc, plane area, surface, and solid. Stable and unstable equilibrium. Machines with and without friction.

*Forces in three dimensions acting on a rigid body.*—Reduction of such forces to a force and a couple; General conditions of equilibrium; Principle of work applied to any system of forces. Work or Potential function. Stable and unstable equilibrium. Poinot's central axis; wrench, screw; resultant wrench of two given wrenches. The cylindroid. Reciprocal screws. Reduction of any system to the forces. Conjugate lines. Nul lines and nul planes.

*Equilibrium of strings.*—General conditions of equilibrium of an inextensible string. The common catenary, the parabola of suspension bridge, the catenary of uniform strength; strings on smooth surfaces and curves, strings on rough curves; strings under central forces, extensible string.

*Standard as in—*  
Loney's Statics.

*Books for reference—*

Minchin's Statics, Vol. I and Vol. II, Chapters XIII—XV.  
Routh's Analytical Statics, Vol. I.

### (8) HYDROSTATICS.

Definitions of 'perfect fluid' and 'pressure at a point.' Equality of pressure at a point in all directions: general conditions of equilibrium of a fluid and of a liquid in particular. Fluid at rest under the action of (1) gravity, (2) central forces. Rotating liquid.

Resultant thrusts of fluid on plane areas. Centre of pressure. Thrust of liquid on curved surfaces.

General condition of equilibrium of a floating body. Surfaces of buoyancy and flotation. Positions of equilibrium. Potential energy stored up by the immersion of a solid.

Stable and unstable equilibrium of a floating body. Metacentre; expression for metacentric height. Experimental determination of metacentric height; stability of equilibrium (1) of a hollow vessel containing a liquid floating in another liquid; (2) of bodies floating under constraint; (3) of bodies floating in heterogeneous liquid (simple cases only); theory of stability based on the principle of energy.

*Standard as in—*

Besant and Ramsay's *Hydrostatics*, Chapters I—V.

Minchin's *Hydrostatics* excepting Chapter on Surface tension.

*Books for Reference—*

Greenhill's *Hydrostatics*.

(9) ASTRONOMY—*General and Elementary Spherical*.

The celestial sphere, astronomical co-ordinates.

The diurnal motion of the heavenly bodies and its explanation by rotation of the Earth. Arguments and proofs for the Earth's rotation. Change of phenomena due to a change of the observer's place on the Earth. Form and size of the Earth. Simple problems connected with the diurnal motion solved by using spherical trigonometry.

The apparent motion of the Sun among the stars. Variations in the length of the day at various places. Twilight. Explanation of the phenomena on the supposition of the annual motion of the Earth round the Sun and proofs for this hypothesis. The determination of the first point of Aries and the obliquity of the Ecliptic. The signs of the Zodiac. Effects of Precession and Nutation.

The Earth's orbit round the Sun. Kepler's laws and Newton's deductions therefrom. True anomaly, mean anomaly and the lengths of the different seasons.

Finding by observation the latitude and longitude of a place, and the error of the clock.

Different units of time and the conversion of one into another. Sundial, Equation of time. Different kinds of years. The Calendar.

Corrections of observations for astronomical refraction, parallax and aberration and the fundamental formulæ embodying these corrections. Determination of parallax of heavenly bodies and their distances.

The Moon. Its orbit round the Earth and the Sun. Its rotation and librations. Synodic and Sidereal months. Eclipses, and their causes. Ecliptic limits. Number of eclipses in a year. The Saros.

Members of the solar system. Elements of a planet's orbit. Direct and retrograde motions of the planets. Phases of the planets. Transits of planets across the Sun. Comets and meteors.

Principal constellations and stars. Double and multiple stars. Binary Stars. Nebulae.

The observatory. The principal instruments—The astronomical clock. Transit Instrument. The transit Theodolite. Equatorial. Sextant. The principal errors of the Transit Instrument and their corrections.

*Text-books recommended for Study—*

- (1) Barlow and Bryan's Astronomy.
- (2) Young's General Astronomy.
- (3) Moulton's Introduction to Astronomy.
- (4) Ball's Spherical Astronomy (*casier parts*).

*Books for Reference—*

- (1) Ball's Spherical Astronomy.
- (2) Newcomb's Spherical Astronomy.
- (3) H. S. Jones's General Astronomy.

## (10) STATISTICS.

*including Probabilities and Errors of Observation:—*

*PROBABILITIES a priori:—*

Mathematical. definition: elementary theorems and examples. Addition and multiplication of probabilities, with examples. Binomial distribution and the most probable event. Mathematical expectation.

*A posteriori or Inverse:—*Bayes's Rule and its criticisms.

*THEORY OF VARIABLES (a) Symmetrical Frequency distribution.—*

Errors, different kinds, nature of accidental errors.

Gauss's Law of Error; its proof based on the nature of accidental error. Error curve.

The law of least squares and deduction of the principle of arithmetical mean. Proof of law of error based on the principle of arithmetical mean. The median and the law of error based on the median. Application to one unknown; measure of precision, mean square error, probable error. Observations of different weights. Adjustment of indirect observations involving one unknown and more than one unknown. Normal equations, their formation and solution. Probable error of an observation of unit weight. Probable errors of unknowns and determination of their weights. Adjustment of conditioned observations. Rejection of observations.

(b) *Asymmetrical Frequency-distribution—*

The median, mode, standard deviation. Method of moments to derive a formula to fit a particular statistical experience. Curve fitting (Pearson's curves). Skewness; Theory of Dispersion.

(c) *Frequency-distribution of two variable—*

Correlation and Contingency tables and their representation by surfaces. Correlation: regression: correlation coefficient and correlation ratio.

(d) *Frequency distribution of several variables—Partial correlation.*

THEORY OF SAMPLING:—Normal correlation.

THEORY OF ATTRIBUTES:—Classification, consistency, association: partial association.

GENERAL STATISTICAL METHODS WITH ILLUSTRATIONS.

THE PRINCIPLES OF INDEX-NUMBER MAKING AND USING.

(a) *Books recommended for study:—*(1) Fisher: 'Theory of Probabilities.' (2) Chrystal: chapter on 'Probabilities' in his Algebra. (3) L. D. Weld: 'Theory of errors and least squares.' (4) David Brunt; 'Combination of observation.' (5) Udny Yule: 'Theory of Statistics.' (6) D. C. Jones's, 'First Course in Statistics.' 'Frequency curves and Correlation.' (7) Bowley: 'Elements of Statistics.'

(b) *Books for Reference.—*(1) Elderton. (2) Secrest: 'Statistical Methods.' (3) King: 'Elements of Statistical Method.' (4) Karl Pearson's memoirs in 'Biometrika,' 'Phil.—Trans.' and 'Phil.—Mag.' (5) The article on Probabilities in the 'Encyclopædia Britannica.'

(II) THEORY OF UNIFORM FUNCTIONS OF A COMPLEX VARIABLE AND INTEGRAL FUNCTIONS.

*General Theory.*

Complex numbers, their geometric representation. DeMoivre's Theorem. Definition of a function of a complex variable, uniformity and multiformity of functions. Analytic functions, the Cauchy-Riemann definition, the differential equations satisfied by the real and imaginary parts of an analytic function. Conformal representation of one plane on another, complete discussion of the transformations

$$u = \frac{az+b}{cs+d}, \quad u = z^n \quad (n \text{ positive integer}), \quad u = e^z \quad (\text{with simple variations.})$$



Cauchy's Theorem for simple contours and functions which are analytic inside and on the contour. The fundamental formula

$$f(z) = \frac{1}{2\pi i} \int \frac{f(z)}{z-z'} dz. \text{ Taylor's series, Liouville's theorem. Laurent's}$$

expansion. Point at infinity, development in its domain. Weierstrass's theorem on the asymptotic behaviour in the domain of an isolated essential singularity. Weierstrass's theorem on a series of analytic functions. Fundamental theorem on residues with simple applications, including evaluation of simple definite integrals.

Weierstrass's theorem on the infinite product expression for an integral function. Mittag-Leffler's theorem on the expression of a function with isolated singularities as a series of rational functions.

Simply periodic functions, expansion of an integral simply periodic function. The impossibility of a uniform analytic function having three independent periods. Elliptic functions, their general properties about the sum of the residues, the number of zeros and the number of poles, the difference between the sum of the zeros and the sum of the poles in a parallelogram of periods; algebraic relation between elliptic functions of the same periods. The Weierstrassian function  $P(u)$  and its fundamental properties.

The fundamental properties of power series of a complex variable, elements of an analytic function, the process of analytic continuation, Weierstrass's conception of an analytic function. Singular points, their place in the Weierstrassian Theory. Functions with natural boundaries, simple examples.

### *Integral Functions.*

Weierstrass's fundamental theorem, notion of genus.

The  $\lambda$ -index (Borel's real order), the  $\mu$ -index and the  $\nu$ -index (Borel's apparent order) of an integral function of finite order,

$\rho = \frac{1}{\lambda}$ . For a canonical product  $\sqrt{\leq \lambda}$ . Hadamard's Theorems : (i) the relation between  $\log M(r)$  and the density of the distribution of the zeros ; (ii) for every integral function of finite order  $\lambda < \nu$  ; (iii) regarding the minimum values of  $M(r)$  on a series of concentric circles extending to infinity ; (iv) for an integral function of finite order for which  $\nu$  is not an integer  $\lambda = \nu$ .

The following books, in so far as they deal with the subject matter given in the syllabus, are recommended.

*A. Books for study:—*

1. Goursat: Mathematical Analysis—Vol. II, Part I.
2. Vivanti and Gutzmer: Theorie der eindeutigen analytischen Funktionen.
3. Borel: Lecons sur la Theorie des Fonctions entiers.
4. Durege: Theory of Functions.
5. Watson: Complex Integration and Cauchy's Theorem.
6. McRobert: Theory of Functions.
7. Harkness and Morley: Introduction to the Theory of Analytic Functions.

*B. Books for reference:—*

1. Forsyth: Theory of Functions.
2. Whittaker and Watson: Modern Analysis.

(12) ORDINARY LINEAR DIFFERENTIAL EQUATIONS.

(A) *Elementary Methods of Integration.*—Equations of the first order, standard forms, Bernoulli's and Riccati's equations. Integrating factories. General linear equation of the  $n$ th order and properties, depression of order, adjoint equation. Special forms: with constant co-efficients, Euler's equation, Laplace's equation, exact differential equation. The general linear differential equation of the 2nd order: various methods of integration, normal form. Trajectories.

(B) *The Theory of Linear Differential Equations.*—Existence theorems. Equation of the first order, system of linear equations of the first order, homogeneous linear equation of the  $n$ th order. First integrals, Jacobi's multipliers. Fundamental systems of integrals, the  $\Delta \uparrow \odot$  criterions. Regular integrals. Study of integrals near a singular point; form and properties, permutation of integrals. The fundamental equation; formal expression of the integrals when all the roots of the fundamental equation are distinct; expression in logarithmic form of the set of integrals corresponding to a repeated root of multiplicity. Fuchs's Theorem on the form of a homogenous linear equation having all its integrals regular near a singularity, and its converse. Frobenius's method of integration for equations of the 2nd order and application to Legendre's and Bessel's equations and to the equation of the hypergeometric series.

(C) *Higher methods of integration.*—Integration by ~~series~~ with simple applications to Legendre's equation, Bessel's equation, and the equation of the hypergeometric series. Solution by definite integrals of Laplace's equation and Bessel's equation.

**Systems of linear equations with constant variable co-efficients.  
Standard to be found in:—**

(A)	{ Forsyth's Treatise Goursat	Chapters II—IV Chapters II—III
(B)	{ Forsyth's Theory, Vol. IV, Goursat	Chapter I nearly complete.
		Chapters II-III greatly restricted.
		Chapters II-III
(C)	{ Forsyth's Treatise Goursat	Chapters V, VII and Chapter VIII restricted.
		Chapter III.

**Books recommended:—**

**A. R. Forsyth:** (1) Treatise on Differential Equations.

(2) Theory of Differential Equations. Part III  
Vol. IV

**Goursat's Mathematical Analysis, Vol. II, Part II (English  
Translation)**

**Jordan:** Cours d' Analyse, Vol. III.

**Laurent:** Traite d' Analyse, Tome V.

**Picard:** Traite d' Analyse, Tome III.

**Schlesinger:** Handbuch der Theorie der linearen Differenti-  
al gleichungen.

### (13) CONDUCTION OF HEAT.

**General differential equation for isotropic bodies and for  
homogeneous bodies. Boundary conditions, uniqueness of solu-  
tion.**

**Isothermal surfaces in homogeneous infinite solid. Solu-  
tion in the following cases of isotropic bodies.**

**(A) The Linear Flow.—Complete study.** (1) The infinite solid, (2) The semi-infinite solid; various problems in constant, variable and periodic temperature at the surface, with applica-  
tion to terrestrial temperature. Reduction of the problem of cooling by radiation to the problem of cooling by conduction. (3) The finite rod, including Fourier's ring. Solution by Fourier's series for constant, variable and periodic temperature at the surface. Angstrom's method for finding conductivity experimentally. (4) Heat sources, instantaneous and continuous; application to semi-infinite solid, finite rod, and Fourier's ring, when there is no radiation (5) Application of Green's function in heat to simple cases of linear flow, not including radiation.

**(B) The flow in more than one dimension.—Simple study.**  
Simple cases of steady and variable temperature for infinite

solid, semi-infinite solid and finite rod. Application of conjugate functions to problems of steady temperature in two dimensions.

(C) *Radial flow*.—The infinite and semi-infinite circular cylinder with or without radiation, initial temperature being constant or a function of the distance only. The sphere, with or without radiation, initial temperature being a function of the distance only. Spherical surface source.

(D) *Conduction of heat in crystalline bodies*.

*Standard to be found in Carslaw:—*

Chapters IX—XIV nearly complete.

Chapters XV—XVIII greatly restricted.

*Books recommended:—*

- (1) H. S. Carslaw:—*Mathematical theory of the conduction of heat*.
- (2) J. Boussinesq:—*Theorie Analytique de la chaleur*.
- (3) H. Poincare:—*Theorie Analytique de la propagation de la chaleur*.
- (4) L. R. Ingersoll and O. J. Sobel:—*An Introduction to the Mathematical Theory of Heat Conduction*.
- (5) Fourier:—*Theorie Analytique de la Chaleur* (English translation by Freeman.)
- (6) Preston:—*Theory of Heat*.

#### B.Sc. (HONS.) DEGREE EXAMINATION.

##### "PLANETARY AND LUNAR THEORIES".

*A—Dynamic Principles*.—Lagrange's equations and the Lagrangian function. Hamilton's principle and the derivation of the equations of dynamics by the variation of Hamilton's principal function. The ordinary Hamiltonian equations and the canonical equations of dynamics. The necessary and sufficient condition that a change of variables should leave the canonical form of the equations (in the new variables) unchanged. Hamilton's theorem that the principal function satisfies a partial differential equation when the constants of integration of the canonical equations are the initial values of the co-ordinates. The Hamilton-Jacobi partial differential equation and its relationship to the solution of the canonical equations.

*B. Newton's Law of Universal gravitation and the problem of two particles*.—Kepler's Laws. Newton's deduction of the Law of Gravitation from Kepler's Laws. Possible forms of force in order that a

particle may describe a conic section under the action of a central force. Bertrand's first theorem that the only laws of central force, which are functions of the distance, under the action of which a particle will describe a conic are  $f = \pm \frac{K^2}{r^2}$  and  $f = \pm K^2 r$ . Bertrand's second theorem that the only laws expressible as functions of the distance, which always give rise to closed orbits, whatever the initial circumstances may be (within a certain range) are  $f = \pm \frac{K^2}{r^2}$  and  $f = \pm K^2 r$ . Evidence of double star systems : Newton's Law of Gravitation universal.

**Elliptic motion.** The fundamental equations of elliptic motion. Bessel's functions and the relations between the functions of different order. The expansions of the radius vector, the eccentric anomaly; the true anomaly, etc., in terms of the eccentricity of the orbit. Convergence of these series.

*C. The problem of  $n$  bodies. Planetary Theory.*—The potential of an attracting system and its relation to the force of attraction. The potential and attraction of a spherical shell at internal and external points. The potential and attraction of any heterogeneous spherical body which is made up of concentric spherical shells of the same density. The potential of a body at a distant point. The motion of  $n$  heavenly bodies under the law of gravitation is practically the same as the motion of  $n$  massive attracting particles. The integrals of the equations of motion of  $n$  particles. Jacobi's equation establishing a necessary condition for the stability of the system. Radau's transformation of the form of the kinetic energy and the angular momentum and the resultant form of the equations of motion. Heliocentric co-ordinates and the equations of motion in terms of them. The disturbing function. Advantages and disadvantages of either of the above two forms of the equations of motion. Solution of the equations  $(S+m)x = \delta R$

$x = \frac{\delta R}{r^3} = -$  by the method of the variation of parameters. Intermediate orbits, Lagrange's brackets and Poisson's brackets and their relationship to each other. The equations of motion expressed in terms of them and the six arbitrary constants of the solution of the equations when  $R=0$ . The Lagrange brackets do not contain the time explicitly. The equations of motion expressed in terms of the Lagrange brackets reduced to the canonical form when the six arbitrary constants are the initial co-ordinates and velocities of the moving body. The expression of a Lagrange bracket in terms of the elements of the orbit.

The canonical elements and the canonical form of the equations of motion when these are used. Jacobi's method of solving the equations of elliptic motion by means of the partial differential equation. Jacobi's equations for disturbed elliptic motion. The canonical constants of Jacobi, Delaunay and Poincare. The expressions for the Lagrange brackets and the Poisson brackets containing the elements. The equations for the

variation of the elements and the disturbing forces expressed in terms of the partial differential co-efficients of the disturbing function with respect to the element. Elementary proof for the equation for  $\frac{da}{dt}$ . The difference between secular inequalities and periodic inequalities. Example of a resisting medium. Long period inequalities and short period inequalities. The inequalities of the Jupiter—Saturn system. The major axes and the mean motions of planets have no secular inequalities in the first approximation. The application of Radau's transformation and the resultant formulae to the proof of Poisson's Theorem that the major axes of planets have no purely secular inequalities even in the second approximation. (The proof of Poisson's theorem is excluded.)

*D. The Lunar Theory.*—The equations of the Sun relative to the centre of gravity of the Earth and the Moon. The motion of the Sun is practically elliptic. The equations of motion of the Moon relative to the earth. Form of the disturbing function. Jacobi's quasi-integral for the Moon's motion (*i.e.*, under the assumption that the Sun moves in a circle). Pontecoulant's equations of motion and their solution up to the second approximation. Variational inequalities. Elliptic Inequalities. The Evection. The motion of Perigee. Mean period inequalities. The Annual equation. Parallaxic inequalities. The latitude equation and the motion of the node. Hill's form of the equations of motion of the Moon. Reduction to one equation giving both the radius vector and the longitude to any desired degree of approximation. The variational curve. Differential equations for small displacements from the variational curve. Hill's equation for the normal displacement, viz.,  $\frac{d^2N}{dt^2} = \Theta N$ . applies to all inequalities independent of the eccentricity of the Sun's orbit. The infinite determinant. Motion of the perigee and the node. Outline of the method of finding the displacement of the Moon from the variational curve when the eccentricity of the Sun's orbit and the parallax are not neglected.

(a) *Books recommended for study:—*

- (1) E. W. Brown's *Lunar Theory* omitting Chapters IX, X and XIII and greatly restricting Chapter XI.
- (2) H. C. Plummer's *Dynamical Astronomy*. Chapters I, II, IV, XII, XIII, XV and Chapter XX and XXI. greatly restricting the last two.
- (3) Hill's *Lunar Theory* as given in Vol. V of Darwin's *Scientific Papers*,

**(b) Books for reference:—**

- (1) F. R. Moulton's *Introduction to Celestial Mechanics*.
- (2) Cheyne's *Planetary Theory* (out of print).
- (3) J. C. Adam's *Lectures on the Lunar Theory* (out of print).
- (4) Dziobek's *Mathematical theories of Planetary motions*.
- (5) Poincare's *Lecons de Mecanique Celeste* Tomes I and II.
- (6) Tisserand's *Traite de Mecanique Celeste* Tomes I and II.

**(2) BRANCH II-A.****RADIATION.****"RADIATION A."*****Electrical waves, wireless telegraphy and telephony—***

Elementary treatment of Clerk Maxwell's *Electromagnetic Theory*.

Electrical oscillations and coupled circuits.

Electrical waves, propagation in dielectrics and conductors; reflection; stationary waves.

Tuning and the early experiments of Hertz, Lodge, Marconi and others.

Modern damped wave wireless telegraphy.

The singing arc and its characteristics; the Poulsen arc.

The modern Poulsen arc system of continuous wave telegraphy.

Detectors.

The Fleming valve; the triode valve and its functions as detector, amplifier and oscillator.

The modern valve system of wireless telephony.

**"RADIATION B".*****X-Rays and their applications—***

Production and measurement of low pressures.

Discharge phenomena in gases at low pressures.

Production and properties of cathode rays, positive rays and anode rays.

Discussion of the main theories regarding the nature of X-rays, with special reference to low voltage X-rays levels.

Production, properties and measurements of X-rays, including technological details, functions of apparatus used, such as coils, tubes, interruptors, transformers, rectifiers, valves, screens, etc.

Characteristic, scattered and secondary X radiations, absorption, phenomena, including transformations of absorbed energy.

Diffraction of X-rays, X-ray analysis of crystals, X-ray spectrometry. ....

Practical applications.

B.A. (HONOURS) AND M.A. DEGREE EXAMINATIONS.

BRANCH II.

PHILOSOPHY.

*Note.*—For the M. A. Degree Examination the work prescribed does not include the optional subjects (numbered below as (6) (a)—(f) defined in connection with the Honours Degree Examination.

(1) *Syllabus of Logic and Theory of Knowledge*—

(A) Knowledge and Thought

1. Postulates of knowledge, formal and material. Relation between logical theory and functional psychology, including a detailed consideration of the antecedent conditions, datum and content of Judgment. Unity and continuity of intellectual life.
2. The central function of the knowledge-process. Image, idea and meaning as factors in logical thought. Thought and language. Names and their import. Extension and intension of terms and the doctrine of their inverse relation.
3. Nature of judgment. The various theories of judgment. Unity of judgment. Varieties of judgment and their affiliation. Negation and disjunction.
4. Nature of inference. The various theories of inference. Induction. Enumerative induction and analogy.
5. Scientific induction by perceptive analysis. Value of Mill's Experimental Methods as methods of proof.
6. Scientific induction by hypothesis. Different forms of explanation.
7. The varieties of deductive inference. Relation between induction and deduction. Classification of the sciences. Fallacies.
8. Necessity in knowledge.

(B) Knowledge and Reality

Relation of knowledge to truth and reality. The criterion of truth. Error. Theories of the relativity of knowledge. The conception of degree of truth and reality. The ideal of knowledge.



(2) (a) *Syllabus of Psychology*—

- I. *The Primary Data of Psychology*.—The stimulus-response relation. 2. Analysis of a response system. 3. Substitute stimuli and responses.
- II. *Analysis of Mental Reactions*.—I Congenital: (a) Reflexive; (b) Instinctive. 2. Acquired: (a) The basis in congenital behaviour; (b) The characteristics of consciousness; (c) The habitual responses. 3. Abnormal reactions and pathological conditions.
- III. *Affective Experiences*.—1. The typical feelings, and their relation to other processes. 2. Classification of the feelings. 3. General theory of the feelings. 4. The emotions and their characteristics. 5. Physiological accompaniments of emotion. 6. Theories of the emotions.
- IV. *The Sensations*.—1. Neural account of Sensations. 2. Functions of sensory processes. 3. The principal sensations, their typical functions, and theories of explanation: i. Visual; ii. Auditory; iii. Olfactory; iv. Gustatory; v. Cutaneous; vi. Organic (including kinaesthetic).
- V. *The Thought Processes*.—
  1. Evolution of the Thought Processes.
    - i. Thinking an acquired reaction.
    - ii. Relation between psychoses and neuroses.
    - iii. Thinking as an adaptive function.
  2. Inter-relation between cognitive and other conscious processes.
    - i. Sensori-motor and ideo-motor circuits.
    - ii. Attention and interest.
    - iii. Affective determinants of thought.
  3. The Perceptual Processes.
    - i. Perception of qualities—<sup>1</sup>relation to sensory processes.
    - ii. Perception of spatial and temporal relations.
    - iii. Perception of meanings.
    - iv. Errors of perception.
  4. Intelligence.
    - i. Classification of Intelligence.
    - ii. Complexity of intelligence.
    - iii. Is intelligence general or specific?
    - iv. Relation to the acquirement of knowledge.

5. Imagination.
  - i. Relation of perception and imagination.
  - ii. The nature and function of imagery.
  - iii. Is imageless thinking possible?
  - iv. Anticipation and recollection.
  - v. Delusions, Hallucinations, Day-Dreaming.
6. Association.
  - i. Neural basis.
  - ii. Criticism of associationism.
  - iii. The associative tendencies.
  - iv. Free and controlled association.
  - v. Conflict and Repression.
  - vi. Dissociation.
7. The Learning Process.
  - i. Animal and human learning compared.
  - ii. Method of trial and error.
  - iii. Learning by observation and practice.
  - iv. Effect of fatigue.
  - v. The curve of learning.
  - vi. The transfer of learning.
8. Remembering and forgetting.
  - i. Relation to imagination and association.
  - ii. Memorizing, recall, retention and recognition.
  - iii. Mental incubation.
  - iv. How we forget.
9. The acquirement of meanings, and formation of concepts.
  - i. Can meaning be analyzed into images?
  - ii. Analysis, comparison, synthesis, abstraction—formation of concepts.
  - iii. The function of language.
10. Reasoning and the judgment.
  - i. A problem-solving operation.
  - ii. Organisation of mental data.
  - iii. Relation to concepts and meanings.
  - iv. Types of judgments: practical and logical.
  - v. Scientific thinking.
  - vi. Conative factors: relation to choice.

11. The relation between Psychology and Logic.

i. Noegenetic principles: 'education of relations and education of correlates.

ii. Range of relations.

iii. Types of correlation: deduction and induction.

12. Belief and doubt.

i. Conative basis.

ii. The attitudes.

iii. Social determinations.

iv. Systems of beliefs.

v. The function of criticism.

Suggested Literature: Spearman: Nature of Intelligence and Principles of Cognition.

Dewey: How we think.

Miller: The Psychology of Thinking.

Meumann: The Psychology of Learning.

Titchener: Experimental Psychology of the Thought Processes.

Pillsbury: The Psychology of Reasoning.

Rignano: The Psychology of Reasoning.

Pear: Remembering and Forgetting.

Edgell: Theories of Memory.

McDougall: Outlines of Psychology.

„ Outlines of Abnormal Psychology.

VI *The Conative Phase of Consciousness*.—I. The motor tendencies of the organism. 2. Sensori-motor and ideomotor action. 3. Interest and attention. 4. Deliberated decisions. 5 Social determinations. 6 Teleological elements—character and personality.

(2) (b) *Syllabus of Ethics*—

1. Scope and method of Ethics. Relation to other sciences.
2. The beginnings and growth of morality—custom; conscience; systematic reflection.
3. Moral development of the individual—Childhood; adolescence; 'conversion'; 'temptation'; fixation of character. The moral and the religious life.
4. Psychology of Ethics—Analysis of the moral judgment: the situation which provokes it; the course it follows; the function of moral criteria. Motive; intention; character.

5. Constructive theory—Good and moral good. Obligation. Casuistry. The moral ideal. Discussion of the principal virtues. The moral significance of institutions: the family; the state; property and rights; punishment.
6. Critical study of ethical thought—General characteristics of Indian, Greek and European morality. Ethical systems—hedonistic, rationalistic, psychological, idealistic.
7. Metaphysics of Ethics—The ultimate validity of moral judgment, Free will and responsibility. Morality and religion.

(3) *Syllabus of European Philosophy—*

*A.—From Thales to the Neo-Platonists.*

This period being commonly studied in the first year of the student's Honours course, it is recommended that the method of teaching should in this case be by exposition and criticism of a text-book. W. T. Stace's 'A Critical History of Greek Philosophy' is suggested as suitable for the purpose.

*B.—From the Middle Ages to Hume.*

Rapid survey of Scholasticism, with special reference to the controversy between Realists and Nominalists. Brief characterization of the Renaissance. Influence on philosophy of the discovery of the laws of motion and the rise of the experimental method. Critical study of the conflicting factors in the philosophical thought of Descartes and of Spinoza. The consummation of Rationalism in Leibniz. Critical study of the rise, development and bankruptcy of "The Way of Ideas" as exhibited in the teaching of Locke, Berkeley and Hume.

*C.—From Kant to Hegel.*

Kant's relation to Leibniz and to Hume. Nature of the Transcendental or Critical Method. Brief description of the problem and the conclusions of the Transcendental Aesthetic. The Metaphysical Deduction of the Categories—a brief characterization. Careful exposition of the gist of (a) the Transcendental Deduction of the Categories, and (b) the First and Second Analogies, Subjectivism and phenomenalism in Kant. The sceptical and idealist tendencies distinguishable in the Transcendental Dialectic. Brief exposition of Kant's treatment of the Paralogisms, the Antinomies and the Proofs for the Being of God. Relation between the Critiques of Pure and of Practical Reason. The reality of freedom. General problem of the Critique of Judgment. Kant's hypothetical reconciliation of mechanism and teleology. Critical study of Fichte's way of transforming the Kantian phenomenalism into an absolute

idealism. Brief description of Schelling's advance upon Fichte-Hegel's criticism of Fichte and Schelling. Careful exposition of the significance of Hegel's identification of logic and metaphysics. Brief statement of the nature of the tasks to which he addressed himself respectively in the *Phenomenology*, the *Logic*, and the *Philosophies of Nature and of Spirit*. Understanding and Reason. Abstract and concrete. The *Dialectic Principle*. Relation of the *Dialectical evolution to time*. The *Real and the Rational*. Alleged Intellectualism of the Hegelian system.

(4) *Syllabus of Outlines of Indian Philosophy—*

I. *Historical Antecedents.*—The world conception characteristic of the Mantra period. Germs of philosophic thought in the later hymns. Development of ritualism in the Brahmanas. Ritual as the means of attaining the ideal of enjoyment here and in Svarga.

II. *Rise and development of the main currents of Speculation.*—Subordination of ritual to knowledge in the Upanisads due to change of ideal. Tendency of the early Upanisads towards Pantheistic Monism. Germs of Sankhyan thought. Karma and Re-birth. Conception of deliverance. Jnana and Dhyana as means for its attainment.

(a) Theism of the later Upanisads and the Gita. The liberal attitude of the Gita in respect of means of salvation. Ethics and Metaphysics of the Gita. Germs of other philosophical schools in the later Upanisads and the Gita.

(b) Jainism and Buddhism. Their independence of authority. Their rejection of single Supreme Being. Universality of Law and Suffering. Karma and Re-birth. Buddha's view of Nirvana. His rejection of ritual. His emphasis on ethical life as the only means of salvation. Buddhist Logic, Psychology and Ethics. The jaina emphasis on *Samyagjnāna*, *Samyagdarsana* and *Caritra*.

III. *Resultant Systems.*—Issue of the above speculative tendencies in well-defined schools of thought : formation of Sūtras.

(A) *Logical Prolegomena* : the study of the *Pramāṇas*, *Pratyakṣa* and *Anumāna*, and an investigation of the nature of cause and causal relation.

B) A comparative and critical study : (1) Materialistic, (2) Rationalistic and (3) Supra-rationalistic systems.

(1) *Materialistic.*—The system of the Cārvākas. Perception, the only test of reality. Denial of the Supersensible. Denial of the validity of inference. Denial of the causal relation. Four elements. Mind, only a function of matter. Denial of any real connexion between virtue and happiness, vice and misery. Artha and Kāma as only ends of life.

- (2) *Rationalistic*.—The Buddhistic schools. Their common features. Kṣanābhanga-vāda, as Atmabhanga-vāda and Bahyarthabhanga-vāda. The Atmakhyati-vāda of the Yōgacāras. The Bahyarthanumēya-vāda of the Sañt-rāntikas. The Bahyarthapratyakṣa-vāda of the Vaibhāsikas. The Sūnya-vāda of the Madhyamikas. Samvriti-Satya.
- (3) *Supra-rationalistic* systems, accepting the authority of the Vedas.
- (4) *The Nyāya and the Vaiśeṣika*.—Their standpoints. Their theory of cognition. Theory of atoms. Conception of God as extra-cosmic and personal. Relation of God to the Universe. Nature of the soul and its final destiny. Relation of the individual soul to God. Conception of Mōkṣa and the means for its attainment.
- (ii) *The Sāṅkhya Schools (Sāṅkhya and Yōga)*.—View of cognition. Conception of reality. Causality, Cosmology and Psychology of the Sāṅkhyas. The doctrine of the plurality of souls: Purusa and Prakrit, the only ultimate realities. Their nature and relation. The attitude of Kapila and Patañjali to the existence of God. Purpose of cosmic evolution. Conception of Kaivalya. Yōga the only means for its attainment. The condition of Purusa in Kaivalya.
- (iii) *The Mīmāṃsa Schools (Pūrva Mīmāṃsa and Uttara Mīmāṃsa)*.—Pūrva Mīmāṃsa as the systematization of the varieties of Vedic ritual. Uttara Mīmāṃsa (Vēdānta) as a philosophy based entirely on the Upanisads. Brahman the highest reality. Brahman both upādāna and nimitta of the universe. Identity of cause and effect. Different schools of the Vēdānta.
- (a) *Advaita*.—Theory of cognition. Conception of reality. Kinds of reality as Pratibhāsika, Vyavahārika and Paramārthika. Causality. Brahman, devoid of all attributes, the only Paramārthika reality. Māya. Isvara. Avidya. Jīva. Relation of Jīva to Brahman. Avaccēda Vāda and Pratibimba Vāda. Relation of Brahman to Māya, Sālvation through the realization of Jīva's identity with Brahman. Jñāna Yōga, the only direct means for its attainment.
- (b) *Viśiṣṭādvaita*.—Conception of reality. Causality. Aprthaksiddha-Sambandha (inseparable union). Plurality of souls. Personality of God. Universe an embodiment of God. The nature of soul. Its relation to God Mōkṣa. Bhakti and Prapatti the direct means of Mōkṣa. Condition of the released soul in Mōkṣa and its relation to God.

- (c) *Dvaita*.—Its essential features. Points of difference from Viśiṣṭadvaita.
- (d) *Sādhya Sādhanta*.—Its essential features.
- (5) Prescribed Modern work for 1980 : Ward : The Realm of Ends, or Pluralism and Theism ; for 1931 : Lloyd Morgan—Life, Matter and Spirit.
- (6) (a) The Advaita Vēdānta, to be studied historically and critically.

*Syllabus of Advaita Vēdānta*

(A) *History* (15)—

- I. Traces of Advaita thought in the Rīg Vēda, Mandalas I and X.
- II. Development of Advaita thought in—
- (a) The Upaniṣads—mainly (1) Brhad .ranyaka—Yājñavalkya's discourses ; (2) Ccāndōgya—discourses addressed to Svētakētu and Indra, also Śandilya, Upakōśala, Bhūma and Dahara Vidyas ; (3) Taittirēya ; (4) Kēna ; and (5) Mandūkya . . . (3)
- (b) Brahma-Sūtras, esp. I i, 1 to 9 ; II i, 14 and II 3, 50 ; III 2, 3 and III 2, 22.
- (c) Bhagavad-Gīta—esp. chapters ii, v, xiii and xviii . . . . . (3)
- (d) Viṣṇu Purāṇa (chiefly monistic extracts considered in the Śrī Bhāṣya) and Śrīmad-Bhagavata (Skandhas x and xi) . . . (1)
- III. First systematic formulation of Advaita doctrine in Gaudapada's Mandūkya-kārikas . . . . (3)
- IV. Classical exposition of Advaita doctrine in Sankara's work :
- (a) Bhāṣya on Brahma-Sūtras — esp. reference in section II (b) and Sūtra IV, 3, 14.
- (b) Bhāṣya on Brhadāranyaka and Ccāndōgya (select passages).
- (c) Vivēkacūdāmaṇī, Atmabōdha and Upadēśa Sahasri  
... .. (2)
- V. Rise of divergent views within the fold of Advaita.

*Main topics of interest.*

- (a) Ajñāna as positive (bhāva-rupa).
- (b) Ekajīva-vāda and Nānājīva-vāda.
- (c) Drṣṭi-Srṣṭi-vāda and Pratikama-vyavastha.
- (d) Sabdaparōkṣa and Akhandārtha doctrine.

VI. Controversy with other systems — as in Madhusudana's  
Advaita Siddhi ... .. (1)

(B) *Exposition* (25)—

I. Relation to other Eastern systems (Buddhism,  
Sāṅkhya, etc.) Cf. *Brahma-Sūtra* Sāṅkara Bhāṣya,  
II. 2. Relative unimportance of affinities with  
Western systems (Idealism, Pantheism and  
Monism) ... .. (3)

II. Theory of knowledge—

(a) The Pramāṇas or means of knowledge—importance of Śabda — Para and Aparā Vidyas—  
nature of Jñāna and its relation to Antakaraṇa  
and vṛtti — Theory of pratyakṣa — intuition  
and inference (pratyakṣa and parōkṣa) . . (3)

(b) Truth and Reality and the doctrine of three kinds  
of Reality (satvātṛaya) ... .. (1)

(c) Nature of Adhyāsa and theory of error (anirvacā-  
nīyakhyāti) ... .. (3)

III. Metaphysics—

(a) Nature of Brahman — proofs of his existence —  
categories of cause and substance — transcen-  
dence (neti-neti) and immanence (antaryāmīti)  
— saguna and nirguṇa vāda ... .. (3)

(b) Nature of Jīvātman — plurality of jīvas — their  
respective avidyā, kāraṇa and upādhi — nature  
and proof of the identity of Brahman and Atman  
— bimba-pratibimba-vāda and avaccedā vāda.  
... .. (2)

(c) Nature of prapañca—theory of abhinna-nimittō  
pādana — parināma-vāda and vivarta vāda —  
doctrine of māya ; its history and proof ; its re-  
lation to time space and causality . . . . (2)

IV. Ethics—

(a) Nature of the highest good (puruṣārtha)—mukti or  
complete freedom from māya or avidyā—beyond  
good and evil—free from activity—positive aspects  
of mukti—saccidānanda—Jīvanmukti and vidhā-  
mukti ... .. (2)

(b) Means of realization (sādhana)—vidyā the one means  
—value of such other means as karma, samadhi  
and upāsana—call for divine grace ... .. (3)

(c) Advaita and social service (lōkasangraha) ... (1)

(d) The ideal and the real—metaphysical warrant of  
moral endeavour—problem of free-will—morality  
and religion...41a ... .. (2)



(C) *Criticism—in the light of other systems, Eastern and Western*  
... .. (20)

- I. Criticism of Māya or mithyatva—charge of acosmism  
... .. (2)
- II. Criticism of anirvācyatva or transcendence—charges of  
agnosticism and mysticism ... .. (2)
- III. Criticism of svaprakāśatva or self-knowability—charge  
of subjectivism ... .. (1)
- IV. Criticism of nirguna vāda—charge of absolutism.  
... .. (1)
- V. Criticism of abhēda vāda—charge of abstract identity  
... .. (1)
- VI. Criticism of jivabrahmaikya—charge of atheism and  
solipsism... .. (3)
- VII. Criticism of jñānasādhana or the subordination of both  
bhakti and karma to jñāna—charge of intellectualism  
... .. (4)
- VIII. Criticism of karmasanyāsa—charges of renunciation and  
quietism ... .. (2)
- IX. Criticism of kaivalya as a goal—charges of moral  
stultification and pessimism ... .. (2)
- X. Criticism of Atmarati—charge of egoism ... .. (1)

NOTE.—The figures in brackets are offered as an approximate indication of the number of days which, in a course extending over 60 lectures, might suitably be given to the various sections and sub-sections specified.

# SAIVA SIDDHANTA

## I.—History

- A. Traces of Saivism in the Rig Veda, the Yajur Veda and the Atharva Veda. The ideas of Rudra-Pasupati, and Śāmba-worship.
- B. (i) Development of Siddhāntic-thought or theism in—  
(a) The upanishads, especially Svetāśvatara.  
(b) The Purāṇas, mainly the Saivite Puranas like Śivamahā-purāṇa, Skanda and Vāyu.  
(c) Itihāsas including the Gītā.  
(d) Formulation of the system as indicated in the later Bhāṣya on the Brahma Sūtras by Nīlakaṇṭha Śivācārya.  
(e) Kāśmīrīyan Saivism—the development of the Pratyabhijñā system.  
(ii) Ancient Tamil literature.  
(a) Traces of Saivite thought in Tolkāppiyam, Tīruvalluvar and Sangam literature.

(b) Growth of devotional literature in the Jaina and Buddhist period. The rise of the Samayacaryas.

(c) Rise of modern Saivism: The Saṅgatanācāryas. Systematization of worship in the Āgamas.

The fusion of the divergent currents of Saivism in the Siddhānta.

## II. Theory of knowledge—

Pramāṇas—Sense—perception. Reasoning and Authority. *Para* and *apara vidyās*. Theories of Truth and Error (Pramā and *Bhrama*).

## III. Metaphysics. The three ultimate Realities: Pati, Pasu and Pasam. Their Viśistadwaitic tendency.

*Saikhārya Vāda*. The idea of causation. Criticism of other theories. Conception of God as Siva and Sakti. God as the efficient cause. Attributes of Siva and Sakti.

(a) Nature of *Pati*.—Criticism of *Nirguna Vāda*. Divine motherhood and the redemptive principle of grace. Criticism of the doctrine of *Avatāra*.

(b) Nature of *Pasu*.—Saiva Siddhānta psychology. Plurality of Souls—Characteristics of the Soul—Its relation to God—Soul as *Sat-asat*. Classification of soul's Avasthas.

(c) Nature of *Pasam*.—The threefold character—*Āpava*, *māyā* and *kāmya*—The Thirty-six tattvas and their relation to the Soul.

(d) Elements of realism in Saiva Siddhānta.

## IV. Ethics and Religion—

(a) The highest *Purusārtha*: *Mukti* or redemption.

(b) Means of attaining salvation (*caryā*, *kr̥yā*, *yoga*, *jñāna*, *dīkṣā*).

(c) The meaning of moral and spiritual endeavour—*Karma* and redemption.

(d) The nature of *mukti*—*Ātma Darsana* and *Siva Darsana*—Its contrast with the theistic and Advaitic ideal. (The four Stages of *mukti*).

## V. Critical study of the inter-relations of Saiva Siddhānta, Advaita and Viśistadvaita; as also of the inter-relations of the various schools of Saivism.

### VI. VISISTADVAITA.

#### I. History—

(i) Germs of Viśistadvaita in the R̥g Veda.

Development of Viśistadvaita in—

A. The Upanisads, especially Ghataka S̥rutis.

1. Brhadāraṇyaka (Maitreya and Antaryāmi Brahmanas).

2. Chāndogya. VI, VII, VIII Adhyāyas.
3. Taittiriya (Mahānārāyaṇa Upaniṣad).
4. Svetāsvatara.
5. Katha.

B. Brahma Sūtras and the Bhagavad Gītā with the related works by Bodhayana, Tanka, Dramida, Yāmuna and Rāmānuja.

C. Vishnu Purana II, V, VI books.

(ii) Pāncarātra. Systematization of worship in the Mahābhārata-Vedānta Sūtras—The development of the Bhāgavata religion and its relation to Viśiṣṭādvaita.

(iii) Tamil Literature—

(a) Growth of devotional literature, Sangam literature. The ālvārs—Guruparampara, Nammalvar, the chief expounder.

(b) The rise of Śrī Vaiṣṭhaviṣm. The earliest formulation of the system by Yāmunaācārya.

(iv) The fusion of the divergent currents in the Siddhānta and its classical exposition by Rāmānuja.

(v) The rise and growth of sub-systems.

(vi) Contributions of Vedānta Deśika and Pillai Lokācārya to Viśiṣṭādvaita.

II. Theory of knowledge—

(a) Pramāṇas or the means of knowledge—*Sabda*, *Anumāna* and *Pratyakṣa*—Correlation as opposed to contradiction—Importance of *Sabda*—The Mīmāṃsaka doctrine justified—The equal validity of all Vedic texts—The relation of *Sabda* to *Āptavākya* and intuition.

(b) *Satkāryavāda* or realism. The doctrine of Pañcīkāraṇa (Brahma Sūtras III—1-3). The theory of the immanent causality.

(c) Nature of Error (*Yathārtha-khyāti*). The theory of continuity or *Avasthas* as opposed to that of contradiction (*mithyā*). The meaning of illusions and dreams in terms of ethical realism. Criticism of the doctrine of *Māyā*.

III. Metaphysics—

Conception of Viśiṣṭādvaita ; nature of Brahman—Brahman as the immanent cause of cosmic evolution—Criticism of *Vivarta vāda*—The absolute as the self-differentiating unity and as personality—The doctrine of *aprathakśiddhāvisēṣaṇa*, *Samanadhikarāṇa*—Criticism of the *Nirguṇa vāda*—The characteristics of Brahman—The theory of incarnation—*Brahman*, *Cit* and *Acit*; eternal but not external ; *Cit* and *Acit* as the *Prakāra* or mode of *Īśvara*—Nature of *Acit*—Categories and characteristics—Meaning of *Suddha Sattva* or *Aprakṛta* and time.

IV. *Psychology*—

The nature of *jivātman* as personality, persisting as a separate being in the four states of waking, dream, sleep and release—Its distinguishing qualities—cognition, Conation and feeling (*gnātrivam*, *kartrivam*, and *bhoktrivam*)—The distinction between substantive intelligence (*dharmabhūta-jñāna*) and attributive intelligence (*dharmabhūta-jñāna*).

The *Jīva* as *Anu* or monadic as distinct from *Iśvara* who is *Vibhu*. The three classes of souls.

V. *Ethics*—

- (a) The moral freedom of the finite-self as a distinct personality and not a mere *viśeṣana*—Criticism of the *mīmāṃsaka* doctrine of the Vedic imperative—Moral freedom and divine necessity reconciled.
- (b) *Iśvara* as *Nārāyaṇa*—Niyanti or moral ruler of the universe—The doctrine of karma—Transcendental eminence, criticism of *bhedābheda vāda*—Karma *yogā* as worship of God without desire for fruits—Service as the supreme good.
- (c) *Iśvara* as *Nārāyaṇa* and *Sri*—The doctrine of redemption and grace—*Karma* and *kṛpā*, reconciled.

VI. *Religion*—

- (a) The doctrine of *Sarira-Sariri-Sambandha*—Logical immanence and ethical transcendence, reconciled in the idea of *Jīva* as a body of *Iśvara*—The æsthetic idea of God as *Anandamaya*.
- (b) Requisites of *Mumukṣatva*—Progressive spiritual discipline in *Karma yoga*, *Jñāna yoga*, *Bhakti yoga* and *Prapatti*—Karma and *Jñāna*, reconciled—The relative values of *Bhakti* and *Prapatti*.—Alvāra's mystic yearning for God.
- (c) Nature of *mukti* as the highest good or freedom from *avidyā* as well as *pāpa*—Criticism of *Jīvanmukti* and *Aikyavāda*. The relative values of *kaivalya* and God-Realisation—*Dvaita* and *Advaita* (Theism and Pantheism) reconciled.

VII. *Affinities with other philosophical systems, more especially with Prābhakara and Jaina Systems.*

- (b) The development of philosophy from Plato to Aristotle.
- (c) The development of philosophy from Kant to Hegel.
- (e) *Syllabus of the Philosophy of Religion*—

*Introductory*—

- (1) The Problem and Task.

- (2) Methodology.
- (3) Special Problems of a Philosophy of Religion.

**I. The History of Religions—**

- (1) Animism—
  - (a) Origins.
  - (b) Development.
- (2) Totemism—
  - (a) The totemic group.
  - (b) Organization.
  - (c) Exogamy.
- (3) Fetichism.
- (4) Magic and Taboo—
  - (a) Definition.
  - (b) Functions.
  - (c) Relation to religion.
- (5) The cult and its various developments.
- (6) Tribal religions.
- (7) National religions.
- (8) Universal religions.

**II. The Psychology of religion—**

- 1. The psychological Characteristics of religion—
  - (a) An attitude and a technique.
  - (b) Social experience.
  - (c) Faith rather than proof.
  - (d) Interpretation and evaluation.
- 2. The Psychological function of religion—
  - (a) Satisfaction for felt needs.
  - (b) Opportunities for overt motor activities.
  - (c) Consciousness of fellowship in collective life, both human and extra-human.
- 3. The Psychological Phenomena of the religious life—
  - (a) A sense of dependence—from magic to religion.
  - (b) Rites and ceremonies—the cult and its power.
  - (c) Belief—the doctrine and the dogma—from animism to ethical theism.
  - (d) Religious persons—shamans, prophets and priests.
  - (e) Religious objects.

4. The Psychological origin of religion—the instinctive basis of the attitude—
  - (a) In the race.
  - (b) In the individual.
5. The Development of religion in human experience—
  - (a) The religion of childhood.
  - (b) Adolescence and its religious experiences
  - (c) The religion of mature minds.
6. The Psychology of religious practices—
  - (a) Prayer.
  - (b) Mythology.
  - (c) Sacred texts.
  - (d) Worship and the collective life
7. The Psychology of Mysticism—
  - (a) Various types of mysticism.
  - (b) The place of ecstasy.
  - (c) The Mystic life.
  - (d) The worth of mystic experience.

**III. The Logic of religion—**

1. The Problem of definition—
  - (a) Facts to be reckoned with.
  - (b) Individualistic definitions.
  - (c) Sociological definitions.
2. The relation of religion to science—
  - (a) Genetically.
  - (b) Functionally.
3. The relation of religion to morality—
  - (a) Historical associations.
  - (b) Reality and the moral and religious consciousness.

**IV. The Epistemology of religion—**

1. The validity of religious knowledge.
2. The subject-object relationship in religious knowledge
3. Theories of religious knowledge—
  - (a) Revelation and authority.
  - (b) Idealism.
  - (c) Experience.

4. The significance of doubt.
5. The dilemma of agnosticism.
6. The function of faith as a way to know truth and reality.

**V. The Metaphysics of religion—**

1. The ultimate Nature of Reality—
    - (a) Mechanism and teleology.
    - (b) Naturalism and agnosticism.
    - (c) The unity of reality, truth and value.
  2. Evidence for the Existence of God—
    - (a) The concept of God is symbolical and anthropomorphic.
    - (b) The teleological argument.
    - (c) The argument from religious experience.
    - (d) The moral ideal and hope of immortality.
    - (e) Pragmatic arguments.
    - (f) Arguments against belief in God.
  3. The Problem of Evil and the Character of God—
    - (a) Transcendence and creationism.
    - (b) Immanence and pantheism.
    - (c) Goodness and infinity.
    - (d) Doctrine of a finite God.
    - (e) Idealistic conceptions: absolute and personal.
  4. God and Human Freedom—
    - (a) Determinism and indeterminism.
    - (b) Reality and worth of the Moral life.
- (f) Syllabus of Experimental Psychology—**
1. The psycho-physical methods. Methods of treating series of observations—average, median, mean variation. Graphic methods.
  2. Cutaneous sensations. The compass test and localization.
  3. Visual sensations. Colour vision. Mixture. After-images. Contrast. Visual perception of space. Binocular vision. Illusions.
  4. Auditory sensations. Binaural audition.
  5. Gustatory and olfactory sensations.
  6. Discrimination of movements and of lifted weights. The size-weight illusion.

7. Sensory acuity.
8. Weber's law.
9. Reaction times: simple and complex. Estimation of interval of time.
10. Experimental investigation of memory and association.
11. Mental work. Fatigue and practice.
12. Feeling. Its expression.

### Branch (V. A.)

#### ECONOMICS.

The following syllabus in Economics has been approved by the Syndicate:—

Students will be required to show a clear understanding of economic principles by intelligent application of economic theory to Indian facts and problems.

*General.*—The scope of economics. Relation of Economics to other Sciences. Methods of economic enquiry, deductive and inductive, (*e.g.*, family budgets, village and city surveys, statistics).

*Psychological Basis of Economics and Consumption.*—Classification of Wants. Satiability, Wants in relation to activities. Elastic and Inelastic Demand. Economic meaning and types of consumption. Conception of 'Utility' and 'Value' Economic motives; the Economic Man, influence of Family System.

*The Production of Wealth.*—*Definition.* Production as (a) creation of use value, (b) creation of Exchange Value. *Classification.* Production for Producer's use (a) Individual, (b) Social. Production for the Market.

*Factors of Production.*—*Natural forces and materials,* soil, sun, rain, minerals, etc. The Principle of Conservation. *Material Capital* (Classification of forms), social and individual capital. *Human energies,* (a) physical (b) intellectual. Theory of population. Efficiency dependent on (a) individual physique, nutrition, knowledge, skill, moral quality. (b) social conditions, *e.g.*, social order, co-operation and division of labour, Methods of conserving past acquisitions of skill and knowledge (*e.g.*, hereditary occupations, apprenticeship, industrial education). New acquisitions (*e.g.*,) research and invention).

*Characteristics of Modern Production.*—*Basis* (a) Individual Property. (b) Contract. *Character* (a) Mercantile, (b) Capitalistic. *Forms* (a) Individual (peasant and craftsman), (b) Patronal (individual employer and joint-stock company), (c) Co-operative, (d) Collectivist (state and municipal) *Specialization.* Concentration in agriculture, manufacture, transport, commerce. Horizontal and vertical combination. *Competition and Monopoly.* Extent to which Indian industry possesses these characteristics.



*Stages of Production.—Extractive Industries. Agriculture, Fishing. Forestry, Mining, etc. Manufacture, Laws of Diminishing Returns and Increasing Returns. Transport and Commerce, local, intranational and international. Money, credit, and insurance as auxiliaries to production.*

*Mechanism of Exchange.—Origin and functions of money. Metallic Coinage. Monometallism and Bimetallism. Functions of Banks. Fiduciary money and money substitutes. (Treasury notes, bank notes, cheques, bills of exchange). Settlement of accounts, intranational and international. The Rupee. Indian Exchange. Indian Banking organization.*

*Exchange Value.—Theory of Value. Equilibrium between Demand and Supply. Market value and normal value. Values in international trade. Crises. Overproduction. 'Value of Money' meanings of phrase; Quantity Theory; Cost and marginal Utility Theory. Variations in Value of Money.*

*Distribution of Wealth.—The Share of Land: Rent. Supply and Demand in relation to Land. The Ricardian Law of Rent. Economic Rent. Customary Rent. Rack-rent. The sharing of Economic rent in India.*

*The Share of Labour (a) Wages. Supply and Demand in relation to Labour. Theories of Wages (a) Minimum subsistence, (b) Standard of Life—(c) Marginal productivity. Combinations of employers and employees in relation to wages.*

*(b) Salaries.—Supply and Demand in relation to acquired knowledge and skill, and exceptional ability.*

*The Share of Capital: Interest.—Supply, and Demand in relation to Capital. The accumulation of Capital. Conversion of capital from unspecialized forms. Interest on loanable capital. Interest on investments. Capitalization. Promotion.*

*The Share of Enterprise: Profits.—Supply and Demand in relation to business Organization. Profits and the Entrepreneurs. Quasi Rent of net industrial advantage.*

*The Share of the State: Taxation:—The Community as worker and sharer in the product.*

*Rent, wages, etc., regarded as cost of production. How far these enter into price.*

*Economic Functions of the State—*

*Duties and Expenses of Government, Local and Imperial, Local and Imperial Taxation. Methods of raising taxes. The Indian Budget. Loans. The Indian Debt,*

*Theories of Taxation. Taxation according to Benefit, taxation according to ability. Taxation for Revenue only. Incidence of Taxation.*

Taxation and International Trade. Free Trade. Retaliation, Imperial Preference, Protection of native industries, Tariffs as part of a policy or national defence or aggrandisement. Commercial treaties.

The State and the Regulation of Industry. Factory Acts and the protection of the worker. Rural indebtedness and its remedies. Migration and emigration. State assistance of Industry.

Public ownership and control, State Socialism.

### BRANCH Y-B.

### THE NEW ECONOMICS DEGREE.

#### ECONOMICS GENERAL I

(includes the scope and method of economics, the theory of value, production, distribution, and consumption).

#### ECONOMICS GENERAL II

(includes Banking and Currency, International Trade, Public Finance, Business and Labour Organization, and other questions of Applied Economics).

#### ECONOMICS SPECIAL

(For text-books *vide pages 677-680.*)

## B. A. (Hons.) DEGREE EXAMINATION

### ENGLISH-PRELIMINARY

#### PART I.

1929.

(1) *19th Century Prose—*

Morley: *Selected Essays* (Macmillan & Co.).

Frederick Harrison: *Essays of Selected Essays from R. L. Stevenson*. Ed. by H. G. Rawlinson.

(2) *Additional Books for Composition.*

Thackeray's *Pendennis*.

Meredith: *Short Stories*.

Trevelyan: *Garibaldi and the Making of Italy* (Nelson & Co.),

1930.

(1) *19th Century Prose—*

Hazlitt: *Twenty-two Essays*, Edited by A. Beatty, D. C. Heath & Co., (omitting Essays Nos. 5, 6, 7, 8, 9, 10 and 19).

Carlyle: *Heroes and Hero Worship*, Edited by Buller, Volume I. Macmillan & Co., Ltd.

654. TEXT-BOOKS IN ENGLISH FOR B.A. (HONS.) [APP.  
AND M. A. DEGREE EXAMINATIONS, 1930.

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Ruskin: *Crown of Wild Olive*.

(2) *Additional Books for Composition.*

Gissing: Charles Dickens. Blackie & Sons.

Dickens: *The Pickwick Papers*.

Representative Short Stories (1800-1924) Longmans Green  
& Co., Ltd., 1926.

1931

19th Century Prose—

Newman: *Literary Selections*.

Arnold: *Selections* Edited by H. W. Rawlinson (Macmillan &  
Co.).

Non-detailed Study—

Jane Austen: *Emma*.

Borrow: *Lavengro*.

Hardy: *Far from the Madding Crowd*.

**B.A. (Hons.) & M.A. Degree Examinations.**

**BRANCH VII**

**ENGLISH LANGUAGE & LITERATURE.**

1930.

Division (a)—

*Gothic*—St. Mark, Chapters vii to xvi.

*Old English*.—Anglo-Saxon Reader, by A. J. Wyatt.

*For Detailed Study*.—Selections 1, 2, 3, 7, 11, 14, 20, 24, 26,  
28, 33, 34.

*Middle English*.—Emerson's Middle English Reader, the follow-  
ing selections:—

Part 1-A.—1, 2.

Part 1-B.—1, 6, 7,

Part 2-A.—1, 3, 5, 6.

Part 2-B.—2, 4, 5, 6, 8.

Chaucer—*The Prologue, The Knight's Tale, The Nun's  
Priest's Tale. The Pearl* (edited by Osgood, *Belles  
Letters Series*).

Division (b)—

\*Shakespeare:

*A Midsummer Night's Dream, Henry V. Twelfth Night,  
Othello, Cymbeline,*

*Poetry and Prose of the fifteenth to the nineteenth Century—*

Specimens of English Literature, 1394, to 1579, edited by Skeat—3, 5, 8, 9, 10, 15, 17, 18, 19, 21, 23, 25, 27, 28.

*Poetry and the Drama—*

Marlowe: *Dr. Faustus*.\* Kyd: *The Spanish Tragedy*. Jonson: *Every Man in His Humour*. Massinger: *A New Way to Pay Old Debts*. Beaumont and Fletcher: *Philaster*. Spenser: *Faerie Queene*, Books 1 and 2. Milton: *Paradise Lost*,\* Books 1 and 2; *Samson Agonistes*. Dryden: *Absalom and Achitophel*, *MacFlecknoe*, *Palgrave's Golden Treasury of Lyrics*, Book 2. Pope: *Rape of the Lock*, *Epistle to Arbuthnot*.\* Gray, Wordsworth, and Keats: *Selections in Ward's English Poets*. Crabbe: *The Village*. Shelley: *Queen Mob*. Tennyson: *The Coming of Arthur*,\* *The Passing of Arthur*,\* *Ulysses*. Browning: *Pippa Passes*. Matthew Arnold: *Thyrsis*, *The Scholar Gypsy*,\* *The Forsaken Merman*. Morris: *Defence of Guinevere and other Poems*. Rossetti: *The Blessed Damozel*.

*Prose—*

Craik's Selections from English Prose—Mandeville, Malory, Berners, More Sidney: *Apologie for Pbetry*.\* Bacon: *First Twelve Essays*, edited by Abbot. Browne, *Religio Medici*, Book I, Milton: *Areopagitica*. Dryden: *Essay of Dramatic Poesy*,\* *Preface to the Fables*.\* Addison: *Selections from the Spectator*, edited by Lobban. Swift: *The Battle of the Books*. Hobbes: *Leviathan*. Johnson: *Life of Pope*.\* Burke: *Letter to a Noble Lord*. Austen: *Pride and Prejudice*. Scott: *Kenilworth*. Lamb: *Essays of Elia*, First Series. Carlyle: *Hero as Poet*.\* Ruskin: *Unto the Last*. Thackeray: *The Newcomes*. Meredith: *The Egoist*. Newman: *Literary Selections* (Longmans). Pater: *Leonardo de Vinci*. Stevenson: *Master of Ballantrae*. M. Arnold: *Essays in Criticism*, First Series.

*Division (c)—Special Period—*

*Elizabethan Literature (1558 to 1637).*

1. *The Drama*.—Kyd: *The Spanish Tragedy*\* Greene: *Friar Bacon and Friar Bungay* Marlowe: *Dr. Faustus*\* Ben Jonson: *The Alchemist*, *Volpone*. Beaumont and Fletcher: *The Faithful Shepherdess*, *The Knight of the Burning Pestle*. Webster: *The Duchess of Malfi*.\* Dekker: *A Shoemaker's Holiday*. Heywood: *A Woman Killed with Kindness*. Middleton: *The Witch*. Massinger: *A New Way to pay Old Debts*.\* Shirley: *The Traitor*.

- II. *Non-Dramatic Poetry*.—Spenser: *The Faerie Queene*, Books I\* and II. *An Anthology of Poetry of the Age of Shakespeare*, edited by W. T. Young (The Cambridge Press). Shakespeare: *Sonnets*\* Marlowe: *Hero and Leander*, *Sestiads I and II*.

III. *Prose*.—Lyly: *Euphues, The Anatomie of Wit*. Ascham: *The Schoolmaster*, Book II.\* Hakluyt: *Voyages of Elizabethan Seamen*, edited by E. J. Payne, First Series. Raleigh: *The Last Fight of the Revenge*. Hooker: *Ecclesiastical Polity* Book I. Bacon: *The New Atlantis*. Henry VII.\* Dekker: *The Gull's Horn Book*.

2. *The Age of Milton and Dryden*.

(Set books will be announced later, if required.)

3. *The Age of Pope and Johnson*.

*Prose*—

Defoe: Captain Singleton.

Addison: The Coverley Papers\*—Edited by O. Myers (George Harrap).

Swift: Selections\* in the Scott Library (Omitting The Battle of the Books).

Richardson: Pamela.

Fielding: Tom Jones.

Sterne: A Sentimental Journey.

Smollett: Humphrey Clinker.

Gibbon: The Crusades.\*

Burke: Speeches\*—Edited by F. G. Selby (Macmillan).

A Shorter Boswell: Edited by J. Bailey (Thomas Nelson & Sons).

Johnson: Life of Milton.

Walpole: Letters (Bohn's Classics).

The Castle of Otranto.

Goldsmith: She Stoops to Conquer.\*

Sheridan: The School for Scandal.

Miss Burney: Evelina.

*Poetry*—

Pope: The Essay on Criticism. The Rape of the Lock.\*

The Epistle to Augustus.\* The Epistle to Dr. Arbuthnot.

Gay: Trivia. The Beggar's Opera.

Churchill, Smart, Thomson\*: Selections in Ward's English poets.

The poetical Works of Collins and Gray\*—Edited by A. L. Peol (Oxford).

Johnson: The Vanity of Human Wishes, London.

Cowper: The Task.

Goldsmith: Traveller\*, The Deserted Village, Retaliation.

4. Wordsworth and his Contemporaries.

**Poetry—**

Wordsworth: *The Prelude*.\* Coleridge: *The Ancient Mariner*  
*Christabel Dejection*.\* Scott: *Marmion*, *Lay of the Last*  
*Minstrel*, Campbell: *Ye Mariners of England*, *Battle of the*  
*Baltic*, Shelley: *Prometheus Unbound*.\* Adonais.\* Keats:  
*Endymion*.\* *Eve of St. Agnes*, *Isabella* Byron: *Childe Harold*,  
Cantos 1 to 4; *Don Juan*, Cantos 1 to 4. Southey, Landor,  
Moore: *Selections in Ward's English Poets*.

*The Drama*—Shelley: *The Cenci*. Byron: *Manfred*.

*Prose*.—Coleridge: *Biographia Literaria*. Wordsworth: *Pre-*  
*face to the Lyrical Ballads*.\* Hazlitt: *The English Poets*,  
*Essays on the Comic Writers*. Lamb: *Essays of Elia and*  
*Critical Essays*, edited by Ainger, Landor: *Imaginary Con-*  
*versations*\* (Blackie & Son) Indian edition. De Quincey:  
*Confessions of an Opium Eater*. Shelley: *Defence of*  
*Poetry*.\* Southey: *Life of Nelson*. Cobbet and Leigh Hunt:  
*Selections in Craik's English Prose*, Vol. 5.

*The Novel*.—Jane Austen: *Pride and Prejudice*, *Emma*, Lyt-  
ton: *Last Days of Pompeii*. Scott: *Kenilworth*, *Rob Roy*,  
*Quentin Durward*. Peacock: *Melincourt*.

5. Tennyson and his Contemporaries.

(Set books will be announced later, if required.)

6. Indo-Germanic Philology with special reference to Sanskrit.

A Sanskrit Reader, by C. R. Lanman (Ginn & Co.).

A Sanskrit Grammar for Beginners. New edition, by A.  
A. Macdonell (Longmans).

A Sanskrit Primer, by G. D. Perry (Ginn & Co.).

The following books indicate the character and scope of the course:—

A. Thumb: *Handbuch der Sanskrit*, Vol I.

C. G. Uhlenbeck: *A: Manual of Sanskrit Phonetics*.

Loewe: *Germanic Philology*, English Translation by Jones.

L. Armitage: *Introduction to Old High German Grammar*.

Giles: *A Short Manual of Classical Philology for Classical Students*.

L. Bloomfield: *An Introduction to the study of Language*  
—English Edition (G. Bell & Sons, London).

Note:—Candidates are required to show a detailed knowledge of books marked with asterisk.

**PHYSICAL SCIENCE**

**Branch. II.**

**PART II.**

**1930.**

*Physics.*—

Cox: *Mechanics* (Cambridge University Press).

Lamb: *Dynamics* (Cambridge University Press).

Barton: *Analytical Mechanics* (Longmans).

Wagstaff: *Properties of Matter* (Clive).

Poynting and Thomson: *Properties of Matter* (Griffin).

Edser: *General Physics* (Macmillan).

Searle: *Experimental Elasticity* (Cambridge University Press).

Poynting and Thomson: *Sound* (Griffin).

Capstick: *Sound* (Cambridge University Press).

Barton: *Text-book of Sound* (Macmillan).

Preston: *Theory of Heat* (Macmillan).

Poynting and Thomson: *Heat* (Griffin).

Wood: *Physical Optics* (Macmillan).

Houstoun: *Treatise on Light* (Longmans).

Clay: *Treatise on Practical Light* (Macmillan).

Mann: *Manual of Advanced Optics* (Chicago University Press).

Whetham: *Experimental Electricity* (Cambridge University Press).

Thomson: *Elements of Electricity and Magnetism* (Cambridge University Press).

Pidduck: *Treatise on Electricity* (Cambridge University Press).

Campbell: *Modern Electrical Theory* (Cambridge University Press).

Lamb: *Alternate Currents* (Cambridge University Press).

Starling: *Electricity and Magnetism* (Longmans).

Millikan: *The Electron* (Chicago University Press).

Schuster and Lees: *Practical Physics* (Cambridge University Press).

Glazebrook and Shaw: *Practical Physics* (Longmans).

Watson: *Practical Physics* (Longmans).

*Reference—*

- Ewing. The Strength of Materials (Cambridge University Press).  
Lamb: Dynamical Theory of Sound (Arnold).  
Schuster: Theory of Optics (Arnold).  
Baly: Spectroscopy (Longmans).  
Jeans: Dynamical Theory of Gases (Cambridge University Press).  
Boynton: Kinetic Theory of Gases (Macmillan).  
Jeans: Electricity and Magnetism (Cambridge University Press).  
Webster: Electricity and Magnetism (Macmillan).  
Richardson: Electron Theory (Cambridge University Press).  
Lorentz: The Theory of Electrons (Teubner).  
Gray: Absolute Measurements in Electricity and Magnetism (Macmillan).  
Whetham: Theory of Solution (Cambridge University Press).  
Cunningham: Relativity, Electron Theory and Gravitation (Longmans).  
Lehfeldt: Electro-Chemistry, Part I (Longmans).  
Drude: Theory of Optics (Longmans).

Text-books for special subjects:—

*Radiation A. Wireless—*

Text-book—

1. Text-book of wireless telegraphy and telephony by W. Greenwood, University Tutorial Press.
2. Oscillation Value by R. D. Bangay.
3. Palmer: Principles and practice of Wireless.

Reference—

Text-book on wireless telegraphs—Vols. I and II by Stanley, Longmans.

*Radiation B. X-ray—*

Text-book.—

1. X-rays—G. W. C. Kaye.
2. Modern applications of X-rays—G. W. C. Kaye.

Reference—

X-rays and crystal structure by W. H. Bragg.

*Chemistry—*

As for B.A. Group II-A. Course.



BRANCH II-B.

The following books are recommended in addition to books recommended for the Pass Group (ii-B), Course:—

- Arrhenius: Theories of Chemistry (Longmans).  
 Ostwald: Scientific foundations of Analytical Chemistry (Macmillan).  
 Ladenburg: History of Chemistry (Simpkin).  
 Thorpe: Essays in Historical Chemistry (Macmillan).  
 Holleman: Organic Chemistry (Wiley).  
 Cohen: Organic Chemistry for Advanced Students (Arnold).  
 Lewis: System of Physical Chemistry (Longmans).  
 Le Blanc: Electro-Chemistry (Macmillan).  
 Findlay: Phase Rule (Longmans).  
 Mellor: Chemical Statics and Dynamics (Longmans).  
 Young: Stoichiometry (Longmans).  
 Fajans: Radioactivity (Methuen).  
 Bailey: Descriptive Mineralogy (Appleton).  
 Williams: Elements of Crystallography (Macmillan).  
 Groth: Chemical Crystallography (Gurney).  
 Tradewell and Hall: Qualitative and Quantitative Analysis (Wiley).  
 Dennis: Gas Analysis (Macmillan).  
 Sudborough and James: Practical Organic Chemistry (Blackie).  
 Clarke: Handbook of Organic Analysis (Arnold).  
 Spencer: Experimental Course of Physical Chemistry (Bell).

*Reference—*

- Nernst: Theoretical Chemistry (Macmillan).  
 Alembic Club: Reprints (Simpkin).  
 Chemical Society: Memorial Lectures, 2 Volumes (Gurney).  
 Mellor: Treatise on Inorganic and Theoretical Chemistry (Longmans).  
 Spencer: Metals of the Rare Earths (Longmans).  
 Roberts Austen: Introduction to Metallurgy (Griffin).  
 Richter: Organic Chemistry (Routledge).  
 Sidgwick: Organic Chemistry of Nitrogen (Oxford University Press).  
 Stewart: Stereo-Chemistry (Longmans).  
 Armstrong: Simple Carbohydrates and the Glucosides (Longmans).

- Bayliss: *Enzyme Action*\* (Longmans).  
 Cain and Thorpe: *Synthetic Dye Stuffs* (Griffin).  
 Perkin: *Natural Organic Colouring Matters* (Longmans).  
 Fierz-David: *Fundamental Processes of Dye Chemistry* (Churchill).  
 Soddy: *Interpretation of Radium and Structure of the Atom* (Murray).  
 Bragg: *X-rays and Crystal Structure* (Bell).  
 Stewart: *Recent Advances in Physical and Inorganic Chemistry* (Longmans).  
 Partington: *Chemical Thermodynamics* (Constable).  
 Prideaux: *Problems in Physical Chemistry* (Constable).  
 Smiles: *Chemical Constitution and Physical Properties* (Longmans).  
 Miers: *Mineralogy* (Macmillan).  
 Biltz: *Laboratory Methods of Inorganic Chemistry* (Wiley).  
 Low: *Technical Methods of Ore Analysis* (Wiley).  
 Ephraim: *Inorganic Chemistry* (Gurney).  
 Taylor: *Treatise on Physical Chemistry* (Macmillan).  
 Beringer: *Text-book of Assaying* (Griffin).  
 Lunge: *Technical Chemists' Handbook* (Gurney).  
 Gattermann: *Practical Methods of Organic Chemistry* (Macmillan).  
 Perkin: *Practical Methods of Electro-Chemistry* (Longmans).

**Physics—**

As for B.A. Group ii-B Course.

**NATURAL SCIENCE.**

**BRANCH III**

**1930.**

*Zoology.*

**MAIN.**

**Theory—**

1. Parker and Haswell: *Text-book of Zoology*—2 Vols. (Macmillan).
2. Sedgwick (A): *Student's Text-book of Zoology*—3 Vols. (Swan Sonnenschein).
3. Lang (A): *Text-book of Comparative Anatomy*—2 Vols. (Macmillan).
4. Weidersheim: *Elements of the Comparative Anatomy of Vertebrates* (Macmillan).

5. Graham Kerr: Zoology for Medical Students. (Macmillan).
6. Mac Bride (E. W.): Text-book of Embryology—Vol I—Invertebrate (Macmillan).
7. Graham Kerr: Text-book of Embryology—Vol. II—Vertebrata, (Macmillan).
8. Doncaster: Introduction to the Study of Cytology: (Cambridge University Press).
9. Lull: Organic Evolution. (Macmillan).
10. Punnett: Mendelism, (Macmillan).
11. Thomson (J. A.): Heredity. (John Murray).
12. Kellogg: Darwinism to-day. (George Bell & Sons).
13. Lock: Variation, Heredity and Evolution. (John Murray).
14. Ray Lankester: Extinct Animals, (Constable).
15. Beddard (F): Zoogeography. (Cambridge University Press).
16. Jenkinson: Vertebrate Embryology. (Oxford University Press).
17. Walter: Genetics.
18. Agar: Cytology.

*Practical—*

In addition to the books prescribed for B.A. Main, the following books are recommended:—

1. Chadwick: The Marine Plankton. (University Press of Liverpool).
2. Ward and Whipple: The Freshwater Biology. (Chapman and Hall).
3. Fowler Herbert: Science of the Sea. (John Murray).
4. Lee: Microtomists' Vade Mecum. (J. and A. Churchill).
5. Guyer: Animal Micrology.

*Reference—*

1. Ray Lankester (F); A treatise on Zoology—9 parts. (A and C, Black & Sons).
2. Cambridge Natural History—10 Volumes, (Macmillan).
3. Volumes of the Fauna of British India.
4. Wilson: Cell in development and heredity. (Macmillan).
5. Minchin: Introduction to Protozoa. (Arnold).
6. Calkin: Biology of the Protozoa. (Barliere Tindall)
7. Castle: Genetics and Eugenics. (Harvard University Press, Cambridge).
8. Bateson: Problems of Genetics. (Yale University Press).
9. Ruggles Gates: Mutation factor in Evolution. (Macmillan).

10. Charles Darwin: Origin of species.
11. Doncaster: Determination of Sex. (Cambridge University Press).

*Journals—*

1. Nature.
2. Quarterly Journal of Microscopical Science.
3. Proceedings of the Zoological Society.
4. Proceedings of the Royal Society, London.
5. Philosophical Transactions of the Royal Society, London.
6. Journal of Experimental Zoology.
7. Records of the Indian Museum.
8. Memoirs of the Indian Museum.
9. Nordiches Plankton.
10. Journal of the Royal Microscopical Society.

SUBSIDIARY.

*Theory—*

1. Shipley and MacBride: Text-book of Zoology. (Cambridge University Press).
2. Parker and Haswell: Text-book of Zoology 2 Vols. (Macmillan).
3. Hegner: College Zoology.

*Practical—*

1. Marshall: The Frog. (Macmillan).
2. Marshall and Hurst: Practical Zoology. (Smith Elder & Co.).

*Reference—*

1. Sedgwick (A): Student's Text-book of Zoology. 3 Vols. (Swan Sonnenschein).
2. Borradaile: Animal Life and its Environment. (Henry Frowde and Hodder and Stoughton).
3. Lull: Organic Evolution. (Macmillan).
4. Charles Darwin: Origin of Species.

## PHILOSOPHY

### BRANCH IV

**1930.**

*Note.*—For the M.A. Degree Examination the work prescribed does not include the optional subjects numbered below as (6) (a) —(f) defined in connection with the Honours Degree Examination.

*In connexion with the respective subjects of examination the following courses of reading are suggested but in no sense prescribed:—*

**Logic—**

1. Bosanquet: *Logic or the Morphology of Knowledge*. Dewey: *Studies in Logical Theory*, Chapters I to V, VIII. Joachim: *The Nature of Truth*.

**Psychology—**

2. (a) I. *Primary Data*.—Woodworth: *Psychology*; Watson: *Psychology from the standpoint of a Behaviourist*; Judd: *Psychology*,
  - II. *Mental Reactions*.—Ency. Brit: Articles on Spinal Cord, Instinct, Intelligence, and Hypnotism; Lloyd Morgan: *Instinct and Experience*; James: *Psychology* (Chapters on the Stream of Consciousness, and Habit); Rivers: *Instinct and the Unconscious*.
- III. *Affective Experiences*.—Shand: *Foundations of Character*; James: *Psychology* (Chapter on the Emotions); Ward: *Psychological Principles* (on Feeling); Stout: *Manual of Psychology* (Chapter on the Emotions); Angell: *Psychology* (Chapters 13, 14, 18, 19); Whately Smith: *The Measurement of Emotion*; McDougall: *An outline of Psychology*.
- IV. *Sensations*.—McKendrick and Snodgrass: *Physiology of the Sensations*; Titchner: *Experimental Psychology*; Stout: *Manual of Psychology*, Book II; Ward: *Psychological Principles* (on presentations); Watson: *Psychology from the point of view of a Behaviourist*.
- V. *Thought Processes*.—Thorndike: *Educational Psychology*, Vol. II; Stout: *Manual of Psychology*, Book III; Angell: *Psychology* (Chapters 6, 7); Titchner: *Experimental Psychology*; Whipple: *Manual of Mental and Physical Tests*; Dewey: *How We Think*; Miller: *The Psychology of Thinking*; Pillsbury: *The Psychology of Reasoning*; Titchner: *Experimental Psychology of the Thought Processes*.
- VI. *Concipient Phase*.—Stout: *Manual of Psychology* Book I, II, & IV, (x); Sully: *The Human Mind* (Chapters 6, 17, 18); Titchner: *Outlines of Psychology* (Chapters 6, 14); Ward: *Psychological Principles*; Ross: *Social Psychology*; McDougall: *Social Psychology*; Cooley: *Human Nature and the Social Order*; Dewey: *Human Nature and Conduct*; Ribot: *Psychology of Attention*; McDougall: *An outline of Psychology*. Robinson and Robinson: *Readings in General Psychology*; McDougall; *Abnormal Psychology*.

*Ethics—*

2. (b) Dewey and Tufts: Ethics.

Stuart: Valuation as Logical Process (in Dewey: Studies in Logical Theory).

Croce: Philosophy of the Practical.

Green: Prolegomena to Ethics, Books II and III.

Munsterberg: The Eternal Values, Chapters I to VI.  
XI. C; XII. C.

Moore: Principia Ethica, Chapters I to IV.

Bradley: Appearance and Reality, Chapter XXV.

Mezes: Ethics: Descriptive and Explanatory.

Rogers: Short History of Ethics.

John Mackenzie: Hindu Ethics.

Hopkins: The Ethics of India.

Bradley: Ethical Studies.

*European Philosophy—*

3. Rogers: Students' History of Philosophy.

Adamson: Development of Greek Philosophy.

Adamson: Development of Modern Philosophy.

Rand: Modern Classical Philosophers, pp. 381 to 420.  
583 to 588.

Croce: What is Living and What is Dead of the Philosophy of Hegel.

*Indian Philosophy—*

4. Bloomfield: The Religion of the Vēda.

Deussen: The Philosophy of the Upanishads.

Max Muller: Six Systems of Indian Philosophy.

Sarva Darsana Sangraha (translation by Cowell and Gough).

Davies: Hindu Philosophy. The Sankhya Karikas of Isvara Kṛṣṇa.

Chatterjee: Indian Realism.

Thibaut: The Introduction to his translation of the Vēdānta Sūtras (S.B.E., Vol. XXXIV).

Mrs. Rhys Davids: Buddhism.

Radhakrishnan: Indian Philosophy. Two volumes.

Das Gupta: History of Indian Philosophy.

Hume: Thirteen Principal Upanishads.

Ranade: A constructive Survey of Upanishadic Philosophy (Poona: The Oriental Book Agency).

A. B. Keith: Sankhya.

A. B. Keith: Karma.

A. B. Keith: Mimamsa.

A. B. Keith: Indian Logic.

A. B. Keith: Buddhist Philosophy.

A. B. Keith: Religion and Philosophy of the Vedas and the Upanishads, 2 vols. (Harward Oriental Series).

P. T. Srinivasa Ayyangar: Outlines of Indian Philosophy.

A. A. Macdonell: India's Past. (Oxford University Press).

*Prescribed Modern work—*

5. For 1930; Ward: The Realm of Ends or Pluralism and Theism.

*Optionals: Advaita Vedanta—*

6. (a) (1) Brihadaranyaka and Cchandōgya Upanishads, with Sankaras commentaries (English translation, edited by V.C. Seshachariar, Mylapore).

Bhagavadgīta, with Sankara's commentary (translation by Mahadeva Sastri).

Gaudapāda's Karikas on the Mandūkyaopanisad (English translation).

Deussen : The System of the Vēdanta.

Shastri : The Doctrine of Māya.

Urquhart : Pantheism and the value of life.

*(2) Saiva Siddhanta—*

1. Sivajñāna bodam with the Bhāṣya of Sivajñāna Swamigal.
2. Sivajñāna Siddhar.
3. Siddhānta Astakam by Umāpati Sivāchārya.
4. Jñānamritam.
5. Siddhānta Sarvaṇi.
6. Brahma Sūtras with Nilakantha's commentary and Appayya Dikṣita's Sivārkaṁaṇi Dīpika.
7. Devotional literature like Tevāram, Tiruvacakam, and Tirumōtram.
8. Siva Tattva Vivekam.
9. Kashmiriyan Saivism Series, more especially Abhinavagupta's works and 'Kashmiriyan Saivism.'
10. Siva and Sakthi by Sir John Woodroffe,

**(8) *Visishtadwaita*—**

1. Vedartha Saṅgraha.
2. Śrībhāṣya (Introduction I—IV. Dr. Thibaut's Translation)
3. Gītābhāṣya.
4. The 6,000 padi for Nammalvar's Tiruvāymoli.
5. Theism in mediæval India (Carpenter).
6. Indian Theism (McNicol).
7. Vaiṣṇavism (Bhandarkar).
8. Vaiṣṇavite Saints (Rajagopālaśāchariyar).
9. History of South Indian Vaisnavism (Dr. S. Krishnaswami Ayyangar).
10. Rahasya Traya Sāra, chapters 2-6.
11. Tatva Traya.

***Ancient European Philosophy*—**

- (b) Plato: Republic, Protagoras and Phædo (translations published in Golden Treasury Series).  
 Aristotle: Metaphysics, Bk. I (transl. by A. E. Taylor).  
 Aristotle: Nicomachean Ethics (transl. by F. H. Peters).  
 Wallace: Outlines of the Philosophy of Aristotle.  
 Grote: History of Greece, Chapters 67 and 68.

***Modern European Philosophy*—**

- (c) The selection from Kant's Critiques of Pure and Practical Reason in Rand: Modern Classical Philosophers, pp. 376 to 485.  
 The selections from Kant's Critique of Judgment in Watson: Selections from Kant, pp. 307 to 349.  
 The first six Chapters of Hegel's Logic in Wallace: The Logic of Hegel, pp. 1 to 155.  
 The selections from Hegel's Logic in Rand: Modern Classical Philosophers, pp. 588 to 613.

***Political Philosophy*—**

- (d) Green: Principles of Political Obligation.  
 Bosanquet: Philosophical Theory of the State.  
 Barker: Political Thought from Spencer to To-day.  
 Rousseau: The Social Contract.  
 MacIver: Community.  
 Lossky: Grammar of Politics.

***Philosophy of Religion*—**

- (e) *Introductory*—  
 Galloway, G.: The Philosophy of Religion, pp. 1-53.



Foster, G. B.: The Function of Religion.

**I. Historical—**

Taylor, E. B.: Primitive Culture.

Frazer, J. G.: The Golden Bough (abridged edition).

Galloway, G.: The Philosophy of Religion, pp. 88-152.

Wundt, W.: Elements of Folk Psychology, on Totemism.

Durkheim, E.: Elementary Forms of Religious Life.

Hastings: Encyclopædia of Religion and Ethics—articles: *Animism, Totemism, Fetichism, Magic, and Taboo.*

Needham: Science, Religion & Reality.

**II. Psychological—**

Hoffding, H.: Philosophy of Religion, section *Psychology.*

Galloway, G.: Philosophy of Religion pp. 54-87, 153-179, 219-250.

Coe, G. A.: The Psychology of Religion.

Prat, J. B.: The Religious Consciousness

King, Irving: The Development of Religion.

**III. Logical—**

Galloway: Philosophy of Religion, pp. 180-218.

Leuba, J. H.: A Psychological Study of Religion: Appendix.

Pratt, J. B.: The Religious Consciousness.

**IV. Epistemological—**

Galloway: The Philosophy of Religion, pp. 251-370.

Calrd John: Introduction to the Philosophy of Religion, Chapters 6 and 7.

Hastings: E. R. E., Article on Epistemology.  
 Streeter, B. W.: Reality (Macmillan & Co.).

**V. Metaphysical—**

Galloway: The Philosophy of Religion, Part III.

Kant: Metaphysics of Morality.

Ward, James: The Realm of Ends.

**Taylor: Elements of Metaphysics, pp. 359-407.**

**Note.**—Students will not be expected to acquire a detailed knowledge of all of the Selected Readings. **Special attention** will be given to the following works:—

**Galloway, G.: The Philosophy of Religion.**

**Pratt, J. B.: The Religious Consciousness.**

**Woodburne: Religious Attitude (Macmillan & Co.).**

**(f) Experimental Psychology—**

**Seashore: Elementary Experimental Psychology.**

**Myers: Text-book of Experimental Psychology.**

**Titchener: Experimental Psychology.**

**Scripture: The New Psychology.**

**Judd: Psychology, Volumes II and III.**

**HISTORY, ECONOMICS AND POLITICS**

**BRANCH V A.**

**1930.**

**SPECIAL SUBJECTS.**

**Any two of the following subjects:—**

**I. Economic History—**

**British Indian Administration.**

**II. Politics—**

**(i) Political Writings of Burke.**

**(ii) Federalism (Ancient and Modern).**

**III. History—**

**(i) Unification of Germany.**

**IV. Indian History—**

**(i) Mauryan Empire.**

**(ii) The Gupta Empire.**

**(iii) Vijayanagar Empire.**

**(iv) Moghul India (1605-1707).**

**V. Economics—**

**(i) Currency and Banking with special reference to South India.**

**(ii) Public Finance with special reference to India.**

**Text-books for study and reference are given below.**

**1. BRITISH INDIAN ADMINISTRATION:—**

**Kaye: The Administration of the East India Company.**

**Ilbert: Government of India.**

- Ramsay Muir: The Making of India.  
Mukerji: Indian Constitutional Documents, 2 Vols.  
Cowell: History and Constitution of the Courts and Legislative Authorities in India.  
Curtis: Dyarchy.  
Ilbert: The New Constitution of India.  
Chailley: Administrative Problems of the British in India.  
Keith: Speeches on Indian Policy.  
Archbold: The Indian Constitution.

**II. POLITICS—**

**i. Political Writings of Burke.**

- Burke, Select Works (with Introduction), by E. J. Payne, Oxford University Press, Vols. 1 and 2.  
The Works of Burke. (World's Classics) Oxford University Press.

Vol. 2. Speeches at his arrival at Bristol and at the conclusion of the Poll, 1774.

Speech on presenting to the House of Commons (on Feb. 11, 1780) a plan for the better security of the Independence of Parliament, and the Economical Reformation of the Civil and other establishments.

Vol. 3. Speech at Bristol previous to the elections in that city. 1780.

Speech at Bristol declining the Poll, 1780.

Speech on Fox's East India Bill, Dec. 1, 1783.

Speech on the motion made in the House of Commons, February 7, 1771, relative to the Middlesex election.

Speech on a Bill for shortening the duration of Parliaments.

Speech on a motion made in the House of Commons, May 7th, 1782, for a committee to enquire into the state of the representation of the Commons in Parliament.

Vol 5. An appeal from the new to the old Whigs.  
Address to the King.

Address to the British Colonists in North America.

Letters of Edmund Burke: edited by H. J. Laski (World's Classics), Oxford University Press.

The Political Philosophy of Burke, by J. MacCunn.

Lord Morley: Burke.

**ii. Federalism, Ancient and Modern**

(Books will be prescribed later.)

**III. HISTORY—**

**(i) Unification of Germany**

*Books for study—*

**(1) The Cambridge Modern History—**

Vol. X : Chap. xi : The German Federation, 1815-40.

Chap. xii : Literature in Germany.

Vol. XI : Chap. iii : Liberalism and Nationality in Germany and Austria.

Chap. vi, vii : Revolution and reaction in Germany (1848-52).

Chap. xv : Austria, Prussia and the Germanic Confederation.

Chap. xvi : Bismarck and German Unity.

Chap. xxi : The Franco-German War.

**(2) A. W. Ward: Germany (The Cambridge Historical Series), Vols. I & II, 1815-1871.**

**(3) Lipson: Europe in the Nineteenth Century.**

**(4) Marriott and Robertson: The Evolution of Prussia, the Making of an Empire (1915).**

**(5) Headlam: Bismarck and the Foundation of the German Empire (Heroes of the Nations).**

**(6) Hearnshaw: Main Currents of European History (1815-1915).**

*Books for further study and reference—*

**(1) G. A. Fyffe: The History of Modern Europe.**

**(2) Seeley: Life and Times of Stein or Germany and Prussia in the Napoleonic Age, 3 vols.**

**(3) Malleon: The Life of Prince Metternich (1888).**

**(4) Karl Marx: Revolution and counter-Revolution in Germany, edited by E. Marx Aveling (1896).**

**(5) Acton: The Causes of the Franco-Prussian War—in his 'Historical Essays and Studies' (1907).**

**(6) Bismarck, the Man and the Statesman—An Autobiography.**

**(7) Buch: Bismarck; Some Secret Pages of his History.**

**(8) Schwill: The Making of Modern Germany.**

**(9) Treitschke: History of Modern Germany.**

Translation by E. & C. Paul in 6 vols., Vols. I to IV.

**(10) H. Von Sybel—Germany under Wilhelm I.**

Vols. I to III—Eng. Trans. by L.M. Perin & G. Bradford, New York (1890).

- (11) J. Ward: Experience of a Diplomat, being Recollections of Germany founded on Diaries kept during the years 1840 to 1870 (London 1872).
- (12) Maurice: The Revolutionary Movement of 1814-49 in Italy, Austria-Hungary and Germany (London, 1887).
- (13) G. P. Gooch: History and Historians in the 19th Century (1913) (specially useful on the German Historical School).

#### IV. INDIAN HISTORY—

##### i. The Mauryan Empire.

(Books will be prescribed later.)

##### ii. The Gupta Empire.

##### *Books for Study—*

- (1) F. E. Pargiter: Dynasties of the Kali Age.
- (2) Fleet: Gupta Inscriptions (Corpus Inscriptionum Indicarum III).
- (3) Allan: Catalogue of Coins in the British Museum: Gupta Coinage.
- (4) Rapson: Catalogue of Coins in the British Museum; Andhra, etc.
- (5) Sir John Marshall: Guide to Sanchi.
- (6) Vincent Smith: History of Fine Arts in India (relevant chapters only).
- (7) S. K. Ayyangar: Vakatakas and their place in Indian History.
- (8) Smith's Vakatakas: J. R. A. S. 1914.
- (9) Jouveau-Dubreuil: A History of the Deccan.
- (10) Legge and Giles: Fa Hien.
- (11) Bhandarkar: Peep into the Early History of India.
- (12) H. C. Ray Chaudri: Political History of Ancient India, Parikshit to the Gupta Empire.
- (13) S. K. Ayyangar: Samudragupta and Chandragupta II.
- (14) Hun Invasions: J. R. A. S. 1908, Hoernle's article on Yasodharman.

J. B. Br. R. A. S. XIX and XXIV  
Modi and Pataka.

- (15) S. K. Ayyangar: Origin and Early History of the Pallavas

or

R. Gopalan's History of the Pallavas of Kanchi (earlier part).

*For further Reading—*

- (1) A. S. R. 1903—4 Basarh Seals.
- (2) Bhitari Seal of Kumaragupta; J. A. S. B. LVIII
- (3) Inscriptions of Kumaragupta I. J. A. S. B. V. New Series.
- (4) Two Vakataka Grants J. A. S. B. XX New Series. Ep. Ind. XV.
- (5) Damodrapur Plates: Ep. Ind. XV.
- (6) Samudragupta Ins. Ind. Antiq. 1913.
- (7) V. A. Smith: Gupta Chronology, Indian Antiquary. 1902.
- (8) Western Satraps: J. R. A. S. 1890 and 1899. Bim-dulph.
- (9) Kay's Indian Mathematics.

III. Vijayanagar Empire—

R. Sewell: A Forgotten Empire (Reprint, 1924. 10 sh).

S. Krishnaswami Ayyangar: South India and her Muhammadan Invaders.

Major King: Burhan-i-Ma'asir (Reprinted from the Indian Antiquary—Vol. 28).

S. Krishnaswami Ayyangar: Sources of Vijayanagar History. Abdur Razzak: An account of his voyage to India (Chapter on Vijayanagar).

R. H. Major: India in the 15th Century (Trans.) (Hakluyt Society). Falling this, Extract in Elliot and Dowson's History of India as told by her own Historians).

S. Krishnaswami Ayyangar: A little known chapter of Vijayanagar History.

H. Krishna Sastri: Three articles on the Dynasties of Vijayanagar—A.S.R.—1907-08, 1908-09 and 1911-12.

Longhurst: Humpi Ruins.

Briggs: Ferishta.

M. Longworth Dames: Book of Duarte Barbosa—chapters relating to Vijayanagar.

Hultzsch: Coins of Vijayanagar (in the Indian Antiquary).

S. Krishnaswami Ayyangar and R. Satyanatha Ayyar: The Nayaks of Madura—Introduction and early chapters up to Chokalinga Nayaka,

**1674 TEXT-BOOKS IN HISTORY, ECONOMICS AND [APP.  
POLITICS FOR B.A. (HONS.) AND M.A.  
DEGREE EXAMINATIONS, 1930.**

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***For Consultation:—***

Epigraphist's reports of Madras and Mysore.

or

Rangachari's Index to Inscriptions.

Danvers—Portuguese India (3 Vols.)

Purchas: His Pilgrims, Volume X.

**iv. Mughal India, 1605 to 1707—**

M. Elphinston: History of India, Ed. E. B. Cowell.

H. G. Keene: History of Hindustan.

Pringle Kennedy: History of the Great Mughals, 2 Vols.

Lane Poole: Aurangzeb (Rulers of India Series).

Jadunath Sircar: History of Aurangzeb (5 Vols. so far published).

Sir William Hunter: History of British India. 2 Vols.

Duff: History of the Mahrattas, Vol. 1 (3 Vols., Cambridge & Co., Calcutta, or better Edwardes' edition, Oxford University Press).

Ranade: Rise of the Mahratta Power.

W. Irvine: Life of Aurangzeb (Indian Antiquary reprint).

Memoirs of Jehangir: Trans. by Rogers and Beveridge, 2 Vols. Royal Asiatic Society's Publications.

Sir Henry Elliot: History of India, as told by her own Historians, Vols. VI and VII.

***For Consultation only:—***

Sir Thomas Roe (Ed. by W. Foster, 2 Vols.).

Manucci: Storia do Mogor (Trans. by Irvine, 4 Vols.).

Bernier: Travels in the Mughal Empire (Vincent Smith's edition, Oxford University Press).

Tavernier: Travels in India (Ball's edition, revised by W. Crookes, 2 Vols. Oxford University Press).

David Macpherson: History of European Commerce with India.

W. Fosters Letters received by the East India Company from its Servants in the East.

J. Talboys Wheeler: Madras in Olden Times.

Jadunath Sircar: The India of Aurangzeb.

J. H. Billimoria: Letters of Aurangzeb.

Gemelli Careri's Travels (Haklyut Society).

Ma'asir-ul-Umara: English translation in the Bibliotheca Indica,

V. ECONOMICS—

1. CURRENCY AND BANKING WITH SPECIAL REFERENCE TO SOUTH INDIA.

Withers H.: The Meaning of Money.

Nicholson: Principles of Economics, Vol. 1, Part 2.

Fisher, I: Why the Dollar is Shrinking.

Barbour, Sir D.: The Standard of Value.

Marshall, A.: Evidence before the Gold and Silver Commission.

Conant, C. A.: Principles of Money and Banking.

Kemmerer, E. W.: Modern Currency Reform.

Keynes, J. M.: Indian Currency and Finance.

Probyn, L. C.: Indian Coinage and Currency.

Howard: India and the Gold Standard.

Brunyate: An account of the Presidency Banks.

Wolff: Co-operative Banking.

Indian Currency Commission Reports, 1893, 1898, 1913  
 1920 & 1926.

Department of Statistics, India: Statistical Tables relating to Banks in India.

Layton: Introduction to the Study of Prices.

Shirras: Memorandum on Banking.

II. PUBLIC FINANCE WITH SPECIAL REFERENCE TO INDIA.

*Books recommended—*

Bastable: Public Finance.

Adams: Finance.

Stamp: The Principles of Taxation.

Seligman: Essays in Taxation.

Seligman: Income Tax.

Hobson: Taxation in the New State.

Redlich and Hurst: Local Government in England (Select chapters).

Shah: Indian Finance during the Past Sixty Years.

Budget Statements of the Government of India since 1910.

Findlay Shirras: Science of Public Finance.

Indian Taxation Committee Report, 1926.

**POLITICS—GENERAL**

BRANCH V-A & V-B.

BOOKS RECOMMENDED

*Politics:—*

Jenks, S.: The State and the Nation.

Warde-Fowler: The City State of the Greeks and Romans,



**76 TEXT-BOOKS IN ECONOMICS FOR B.A. (HONS.) [APP.  
AND M.A. DEGREE EXAMINATIONS, 1930.**

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**Sidgwick: Development of European Polity.**

**Bryce: Modern Democracies.**

**Dicey: Law of the Constitution.**

**Keith: Constitution, Laws and Administration of the  
British Empire.**

**Ogg: Governments of Europe, 1923 Edition.**

**E. A. Horne: The Political systems of British India.**

**Ilbert and Meston: The New Constitution of India.**

**Pollock: History of the Science of Politics.**

**Robert H. Murray: History of Political Science.**

**G. P. Gooch: Political Thought in England from Bacon to  
Halifax.**

**H. J. Laski: " " " from Locke to  
Bentham**

**W. L. Davidson: " " " from Bentham  
to Mill.**

**Ernest Barker: " " " from Herbert  
Spencer to the  
Present day.**

**Maccunn: " " " Six Radical  
Thinkers.**

**Joad: Modern Political Theory.**

**Mill: Representative Government.**

**Jethro Brown: Underlying Principles of Legislation.**

**Miss Follett: The New State.**

**ECONOMICS**

1930.

**BRANCH III-B**

***Economics, General I***

**(Includes the scope and method of Economics, the theory of  
Value, Production, Distribution and Consumption.)**

***Economics, General II***

**(Includes Banking and Currency, International Trade, Public  
Finance. Business and Labour Organization, and other ques-  
tions of Applied Economics).**

***Books recommended for I & II***

***For Study:***

**Marshall: Principles of Economics.**

**Marshall: Industry and Trade.**

**Nicholson: Principles of Economics.**

Taussig: Principles of Economics.

Pigou: Economics of Welfare.

*For Reference:*

Gide and Rist: History of Economic Doctrines.

Haney: History of Economic Thought.

Haney: Business Organization and Combination.

Pierson: Principles of Economics.

Devas: Political Economy.

Imperial Gazetteer of India, Vols. III and IV.

Indian Year Book.

SPECIAL SUBJECTS.

Any two of the following subjects:—

- I. Recent Economic History.
- II. Banking and Currency.
- III. Labour Problems.
- IV. Indian Land Tenures.
- V. Rural Economics.
- VI. Public Finance.
- VII. International Trade.

(Books for study and reference are given below.)

*Economics, Special*

1. *Recent Economic History* (a general survey of economic developments in Europe, America and India since 1800).

*Books recommended—*

Knowles: The Industrial and Commercial Revolution (in the Nineteenth Century).

Cunningham: Growth of English Industry and Commerce, Vol. III.

Clapham: Economic Development of France and Germany, 1815-1914.

Ogg: Economic Development of Modern Europe.

Bogart: Economic History of the United States.

Dutt: Economic History of India under British Rule.

Morison: Economic Transition in India.

2. *Banking and Currency* (includes money, credit, foreign exchanges and prices).

***Books recommended—***

- Conant: Money and Banking.  
 Kemmerer: Modern Currency Reforms.  
 Fisher: The Purchasing Power of Money.  
 Lavington: The English Capital Market.  
 Cassel: The World's Monetary Problems.  
 Duguid: The Stock Exchange.  
 Marshall: Money, Credit and Commerce.  
 Riesser: German Great Banks.  
 Keynes: Indian Currency and Finance.  
 Shirras: Indian Finance.  
 Reports and Evidence of the Indian Currency Committees.  
 Annual Reports on the Operations of the Currency Department of the Government of India.  
 Statistics of Joint Stock Banks (Annual).  
 Babington Smith Committee Report on Indian Currency, 1920.  
 Flux: Foreign Exchanges.  
 Hawtray: Currency, and credit.
3. *Labour Problems* (includes trade unionism, socialism, labour legislation, and welfare work.)

***Books recommended—***

- Webb: History of Trade Unionism.  
 De Montgomery: British and Continental Labour Policy.  
 Tillyard: The Worker and the State.  
 Cole: Self-Government in Industry.  
 O'Brine: Labour Organization.  
 Bertrand Russell: Roads to Freedom.  
 Salter: Karl Marx and Modern Socialism.  
 Gilchrist: Conciliation and Arbitration.  
 Report of the Indian Factory Commission.  
 Report of the Indian Industrial Commission.  
 Publications of the Government of India, Labour Bureau.  
 The Labour Gazette, Bombay (Monthly).  
 Broughton: Labour in Indian Industries.  
 Census of India, 1921, India and Madras, Chapters on Industries and occupations.  
 Shirras: Report on an enquiry into the wages and hours of labour in the Cotton Mill Industry.

- 4. *Indian Land Tenures*** (includes the development and main features of the principal systems of land tenure in India).

*Books recommended—*

Baden-Powell: A Short Account of the Land Revenue and its Administration.  
 Land Revenue Resolution of the Government of India (1902) and connected papers.  
 Arbuthnot: Selections from the Minutes of Sir T. Munro.  
 Seton Kerr: Marquess Cornwallis.  
 Bradshaw: Sir Thomas Munro.  
 Temple: James Thomason.  
 Srinivasaraghava Ayyangar: Memorandum on Forty Years' Progress of the Madras Presidency.

- 5. *Rural Economics*** (includes the organization and financing of agriculture with special reference to the co-operative movement in relation to agriculture).

*Books recommended—*

Carver: Agricultural Economics.  
 Nicholson: Report on the Introduction of Land and Agricultural Banks, Vol. I.  
 Leake: Agriculture in the United Provinces.  
 Slater: Some South Indian Villages.  
 Srinivasaraghava Ayyangar: Memorandum on Forty Years' Progress in the Madras Presidency.  
 Jack: Economic Life of a Bengal District.  
 Darling: The Punjab Peasant in Prosperity and Debt.  
 Baden—Powell: A short Account of Land Revenue and its Administration.

- 6. *Public Finance*** (includes the economic functions of the State, the raising and spending of taxes and public loans, and the regulation of tariffs).

*Books recommended—*

Bastable: Public Finance.  
 Adams: Finance.  
 Stamp: The Principles of Taxation.  
 Seligman: Essays in Taxation.  
 Seligman: Shifting and Incidence of Taxation.  
 Hobson: Taxation in the New State.  
 Redlich and Hurst: Local Government in England (Chapter dealing with finance).

Shah: Indian Finance during the Past Sixty Years.  
Budget Statements of the Government of India since  
1910.

Findlay Shirras: Science of Public Finance.

Indian Taxation Committee Report, 1926.

7. *International Trade* (includes the theory of international trade, tariff policies and methods, and the distribution and movement of the world's trade in staple commodities).

*Books recommended—*

Bastable: Public Finance.

Bastable: The Theory of International Trade.

Percy Ashley: Modern Tariff History.

Taussig: Some Aspects of the Tariff Question.

Pigou: Protection and Preferential Import Duties.

Cunningham: The Rise and Decline of the Free Trade Movement.

Gregory: Tariffs—A Study in Method.

Pitman's Series: The World and its Commerce.

Report of the Indian Fiscal Commission, 1922.

Annual Trade Statistics of the Government of India.

Ainscough: Reports on the Condition of British Trade in India.

Cotton: Handbook of Commercial Information for India.

## TWO LANGUAGES OTHER THAN ENGLISH

BRANCH (iv).

1930.

The same as for Group (vi) of the B.A. Degree Examination under the old Regulations for all the languages.

## SANSKRIT LANGUAGE AND LITERATURE

BRANCH vi—M.A.

*Note.*—For the M.A. Degree Examination the same text-books as for the B.A. (Honours) Degree Examination, with the omission of Comparative Philology and Comparative Grammar, are prescribed.

BRANCH. vi—HONOURS.

GENERAL PART

1930 and 1931.

Siddhānta-kaumudī : (a) Pārvārdha, from Strīpratyayaprakaraṇa to the end of Apatyādhikāra in the Taddhitaparakriyā

(b) Uttarārdha, the whole omitting Uṇādi-prakaraṇā

Vidyamātha\* : Prātāparudra-yaśū-bhāṣaṇa.

Rg Vēda : Macdonell's Vēdic Reader, hymns I to X together with Sāyana's Upōdghāta to his Rg-Bhāṣya and the corresponding passages (I to X) in the Sāyana's Commentary on the Rg. Vēda, edited by Pasupatinath Sastri, M.A., B.L. (Oxford University Press).

Yāska : Nirukta, Naighaṇṭuka-kāṇḍa, Chapter II.

Mudrarāksasa : by Viśākhadatta.

Srī Harṣa : Naisadhīyacarita Cantos IV, V and VI.

Bāṇa : Harṣacarita, Ucchvāsas I to III.

*In connexion with Branch vi of the B.A. (Honours) Degree Examination, the attention of students is invited to the following books though it must be distinctly understood that they are not prescribed as text-books.*

1. Science of Language, History of the Sanskrit Language and History of Sanskrit Literature.

*Books recommended for study—*

Jespersen: Language, its origin, theory and development.

Giles: Short Manual of Comparative Philology for classical students (Macmillan).

Tucker: Introduction to the Natural History of Language (Blackie).

Sweet: The History of Language (Temple Primers).

Bloomfield: Introduction to the Study of Language (G. Bell & Sons).

Macdonell: Vedic Grammar for Students (Oxford University Press).

Whitney: Sanskrit Grammar (Kegan Paul, Trench, Trubner & Co.).

Uhlenbeck: Manual of Sanskrit Phonetics (Luzac & Co.).

Kaegi: The Rīg-veda: the oldest Literature of the Indians (Ginn & Co., Boston).

Macdonell: History of Sanskrit Literature (William Heinemann).

Macdonell: India's past.

Max Muller: History of Ancient Sanskrit Literature (Reprint, Panini Office, Allahabad.)

A. B. Keith: 'Classical Sanskrit Literature' and 'Sanskrit Drama, its origin, theory and development.'

*Books recommended for consultation—*

Brugmann: Comparative Grammar of the Indo-Germanic Languages, translated by Wright, Conway and Rouse.

Bopp: Comparative Grammar of the Sanskrit, Zēnd, Greek, Latin, Lithuanian, Gothic, German and Slavonic languages (translated by Eastwick.)

Schleicher: Compendium, translated by Bendall.

Whitney: Life and Growth of Language.

„ : Language and its Study.

„ : Oriental and Linguistic Studies.

Max Muller: Lectures on the Science of Language

„ : Biography of Words.

Delbruck: Introduction to the Study of Language.

Carl Abel: Linguistic Essays.

Lefevre: Race and Language.

Gray: Principles of Indo-Iranian Phonology.

Thumb: Handbuch des Sanskrit.

Wackernagel: Altindische Grammatic.

Macdonell: Vēdic Grammar.

Beams: Comparative Grammar of the modern Aryan languages of India.

Hoernle: Comparative Grammar of the Gaudian languages.

Arnold: Vēdic Metre.

Bloomfield: The Atharva-vēda.

B.g., Yajus and Atharva-prātiśākhya.

Goldstucker: Pānini: his place in Sanskrit Literature.

Weber: History of Indian Literature translated by Mann and Zachariah.

Muir: Original Sanskrit Texts.

Stein: Kalhana's Chronicle of Kāshmir.

Ragozin: Vēdic India.

Rhys Davids: Buddhist India.

V. A. Smith: Early History of India.

Rapson: Ancient India.

R. C. Dutt: History of Civilization in Ancient India.

C. V. Vaidya: Epic India.

„ : Riddle of the Rāmāyana,

Bhandarkar: Early History of the Dekkan.

Schrader: Prehistoric Antiquities of the Aryan Peoples.

Langlois and Seignobos: Introduction to the Study of History (translated by Berry).

A. B. Keith: Religion and Philosophy of the Vedas and Upanisads—Harward Oriental Series.

SPECIAL PART

1930 and 1931.

*Sāṅkhya, Yoga, Nyāya and Vaiśeṣika*

- Isvarakṛṣṇa : Sāṅkhya-kārikās with }  
Gaudapada's Vṛtti } (Chowkhamba Book Depōt,  
Udayanācārya : Nyāya-kusumanjali, } Benares.)  
Stabakas I and II }  
Kaṇḍa : Vaiśeṣika-sūtras (whole) }  
Patañjali : Yoga-sūtras with Bhōja Vṛtti (Anandasrama Press, Poona).  
Gautama : Nyāya-sūtras with Vatsyāyana's Bhāṣya, Chaps. I and II only (Lazarus & Co., or Chowkhamba Book-Depōt, Benares.)  
Viśvanāthapancāna : Nyāya-siddhānta-muktāvali (whole) (Nirnaya Sagara Press, Bombay).

*Books recommended for study—*

Creighton : An Introductory Logic.

A. S. Rappoport : A Primer of Philosophy (John Murray, London).

Laura Brackenbury : A Primer of Psychology (do.)

F. Müller : The Six Systems of Indian Philosophy

J. Davies : Hindu Philosophy.

R. Garbe : Philosophy of Ancient India.

J. C. Chatterji : Hindu Realism.

A. B. Keith : Sāṅkhya System and 'Indian Logic and Atomism.'

Tarakasamgraha with Dīpika, edited by Y. V. Athalye (Bombay Sanskrit Series.)

*Books recommended for consultation—*

Brajendranath Seal : The Positive Sciences of the Ancient Hindus.

Satis Chandara Vidyabhusaṇa : 'The History of Indian Logic.'

H. U. : The Vaiśeṣika Philosophy according to the Dasapadārthasāstra.

Sugiura : Hindu Logic as preserved in China and Japan.

W. James : Pragmatism.

Flint : Theism.

„ : Anti-theistic Theories.



Balfour : Theism and Humanism.

Hobhouse : Theory of Knowledge.

Roger : Introduction to Modern Philosophy.

A. S. Pringle Pattison : The Idea of God in the Light of Recent Philosophy.

Madhavācārya : Sarvadarsanasangraha.

Gangesa : Tatvacintāmani.

Yōga-sūtras with Vyāsa-bhāṣya : Trans. Eng. by Haughton Woods—Harward Oriental Series.

N. B.—Students are informed that all the Oriental books in the above lists could be procured through the Oriental Books Supplying Agency, 15, Shukrawarpet, Poona, or through the Proprietor, The Punjab Sanskrit Book-Depot, Said Mitha Bazaar, Lahore.

## ARABIC LANGUAGE AND LITERATURE

1930.

BRANCH viii

*Note.*—For the M.A. Degree Examination the same text-books as for the B.A. (Honours) Degree Examination with the omission of Comparative Philology and Comparative Grammar are prescribed.

### *General Part—*

1. The Commentary of al Baidawī, Suras 1 to 3.
2. Saba-i-Mu'allāqat.
3. Hamasa, first half.
4. Yatimatu'd-Dahr, Vols. I and II.
5. Diwan of Mutanabī, Vol. I, (Ukbarī's Commentary).
6. Makhamat of Hariri and Badluzzaman al Hamadhani.
7. Sahihu'l-Bukhari. 1st quarter.

### *Grammar, Prosody and Poetics—*

8. Asrarul-Balaghat
  9. Dalailu'l-Ijaz
- } by Abdul Kahir Jurjani.
10. Wright's Arabic Grammar, Vols. I and II.
  11. Wright's Comparative Grammar of the Semitic Languages.
  12. Nicholson's Literary History of the Arabs.

### *Special Part—*

1. Life of Muhammad (Ibn-i-Hisham).
2. Tarikhu'l-Khulafa (Suyuti).
3. Fathu'l-Qissi-fi Fathu'l Kudsi (Imadu'd din-al-Katib).
4. Prolegomena of Ibn Khaldun.

*The attention of students is invited to the following books, though it must be distinctly understood that they are not prescribed as text-books.*

*I. Books recommended for study with reference to the General Part—*

1. The Kamil of Mubarrad (Ed. by Wright).
2. Majma'a-ul-Bahrayn.
3. Diwans of Farazdaq, Hassan ibn-i-Thabit, Jarir, Abu Tammam, Abu Nuwas, Adu'l-Ala-al Ma'arri.
4. History of Islamic Civilisation (Zaidan).
5. Al-Masalik Wa'l-Mamalik.
6. Milal wa'n-Nihal (Shahristani).
7. Al-Aghani. Vols. I to IV.
8. Oriental and Linguistic Studies (Whitney).
9. History of Arabic Literature (Huart).
10. Shu'araun-Nasraniya.
11. Translation of Arabian Poetry (C. F. Lyall).
12. Lectures on the Religion of the Semites (Robertson Smith.)
13. Kinship and Marriage in Early Arabia.
14. Kitabu'l-Amali, Vols. I and II (Abu Ali-al-Qali).

*II. Books recommended for study with reference to the Special Part—*

1. The Annals of Tabari.
2. Al-Fakhri.
3. Ibn-i-Khallikan's Biographical Dictionary.
4. Yaqut's Dictionary of Learned Men (Ed. by Margoliouth.)
5. Ar-Raudata.
6. Ibn Khaldun.
7. History of the Seljuks.
8. Mukhtasaru'd-Duwal (Abu'l-Faraj).
9. The Spirit of Islam (Amir Ali).
10. History of the Saracens (Amir Ali).
11. Rise, Decline and Fall of the Caliphate (Muir).
12. History of the Muhammadan Dynasties of Spain (Nafhu't Tib Maquari).
13. The Moors in Spain by Stanley Lane-Poole (Story of the Nations Series).
14. History of the Mongols (Ed. by Blochet).
15. Life of Timur (Ibn-i-Arabshah).

686 TEXT-BOOKS IN TAMIL, TELUGU, KANARESE (APP.  
AND MALAYALAM FOR M.A. DEGREE EXAM., 1930.

16. Tarikh-i-Ferishta.

17. Al-Biruni's India.

**M. A. DEGREE EXAMINATION**

**TAMIL.**

**1930.**

ADDITIONAL PAPER ON COMPOSITION

*Books prescribed :—*

Toluvūr Vēlāyudha Mudaliyar's Tiruvēṅkāṭṭaḍigal Carittiram  
(Ripon Press, Madras).

Mullaipp.ṭṭārāycci, by Swami Vedachalam, Pallavaram.

Essay on Kambar, by T. Chelvakesavaraya Mudaliyar.

**TELUGU.**

**1930.**

ADDITIONAL PAPER ON COMPOSITION

Kavyalankara Cūdamaṇi.

Amukta Mālyada.

NOTE—Candidates are expected to make a critical study of  
these books and the most recent opinion on them, if any.

**KANARESE.**

**1930.**

ADDITIONAL PAPER ON COMPOSITION

1. Vachana S.ś'ra Sūtra, Part I, by Rao Saheb P. G. Halkatti  
B.A., LL.B. (Pleader, Bijapur).
2. Nataka Kale, by Almarana Sastri Odlamane (Sadananda  
Press, Mangalore).
3. Karn.ṭṭaka Gatha Vaibhava, by V. B. Alur, B.A., LL.B. ("Jaya-  
karnataka" Office, Dharwar).
4. Rassellas, by J. V. Gothe (Shri Shankar Book Depot,  
Malmaddi, Dharwar).

**MALAYALAM.**

**1930.**

ADDITIONAL PAPER ON COMPOSITION

**Poetry—**

1. Gouricharitam—Prabhandham (Secretary of the Malaya-  
lam Improvement Committee, Trichur).

2. Kalakēvavadhan, by Kottayath Thampuran (by Publisher).
3. Giriḡa Kalyanam Kilipattu by Unnayi Varier (Government Press, Trivandrum).

*Prose—*

S̄rasimban,—by Karthika Thirunal Thampuratti, Anantapuram Kottaram, Arippad, Travancore.

ARABIC, PERSIAN AND URDU.

1930

ADDITIONAL PAPER ON COMPOSITION

Arabic—Muq qaddimai-Ibni-Khaldun—1st half.

Persian—Siyāhat Nfmeḡ-Ibrahim Beg—Whole.

Urdu—Darbari-Akbari—1st half.

**B.A. (HONS.) & M.A. DEGREE EXAMINATIONS**

BRANCH vii.

ENGLISH LANGUAGE AND LITERATURE.

1931.

The same as for 1930.

PHYSICAL SCIENCE.

BRANCH ii-A.

1931.

PHYSICS.

The same as for 1930.

CHEMISTRY.

The same as for B.A. Group ii-A Course.

BRANCH ii-B.

The same as for 1930, with the following modification; Substitute under Reference Schmidt: Organic Chemistry (Gurney), for Richter: Organic Chemistry (Routledge).

NATURAL SCIENCE.

1931.

BRANCH iii.

ZOOLOGY.

(Main & Subsidiary)

The same as for 1930.

PHILOSOPHY.

1931.

BRANCH iv.

- |    |   |                                       |
|----|---|---------------------------------------|
| 1. | } |                                       |
| 2. |   |                                       |
| 3. |   |                                       |
| 4. |   |                                       |
| 5. |   |                                       |
| 6. |   | Lloyd Morgan—Life, Matter and Spirit. |

The same as for 1930.

HISTORY, ECONOMICS AND POLITICS.

1931.

BRANCH v-A.

The same as for 1930.

BRANCH v-B.

The same as for 1930.

TWO LANGUAGES OTHER THAN ENGLISH.

BRANCH iv.

1931.

The same as for 1930.

SANSKRIT LANGUAGE AND LITERATURE.

BRANCH vi—M.A.

1931.

The same as for 1930.

BRANCH vi—HONOURS.

1931.

GENERAL PART.

The same as for 1930.

Special Part.

1931.

The same as for 1930.

**ARABIC LANGUAGE AND LITERATURE.**

**BRANCH viii.**

**1931.**

The same as for 1930.

**M.A. DEGREE EXAMINATION.**

**Additional Paper on composition.**

**1931.**

**TAMIL.**

The same as for 1930.

**TELUGU.**

The same as for 1930.

**KANARESE.**

- (i) Kavisamaya by M. A. Ramanujiengar (Kavya Kalanidhi Office, Mysore).
- (ii) Nataka Kale by Atmarama Sastri Odlamane (Bala Sahitya Mandala, Mangalore).
- (iii) Karnataka Gatha Vaibhava by Venkatarao Alur, B.A., LL.B., ("Jayakarnataka" Office, Dharwar).
- (iv) Sarvajnya Padyagalu edited by C. D. Uttangi (Sri Shankar Book Depot, Malmaddi, Dharwar).

**MALAYALAM.**

The same as for 1930.

**ARABIC LANGUAGE & LITERATURE.**

The same as for 1930.

**B. A. (HONOURS) & M. A. DEGREE EXAMINATIONS**

**BRANCH VII.**

**ENGLISH LANGUAGE AND LITERATURE.**

**1932.**

*Division (a)—*

Old English: Anglo-Saxon Reader, by A. J. Wyatt,

For Detailed Study: Selections 1, 2, 3, 7, 11, 14, 20, 24, 26, 28, 33 and 34.

Middle English: Emerson's Middle English Reader, the following selections:—

Part 1-A—1, 2.

Part 1-B—1, 6, 7.

Part 2-A—1, 3, 5, 6.

Part 2-B—2, 4, 5, 6, 8.

Chaucer: The Prologue, the Knight's Tale, The Nun's Priest's Tale.

The Pearl (edited by Osgood, Belles Lettres Series).

*Division (b):—*

*\*Shakespeare—*

A Midsummer Night's Dream, Henry V, Twelfth Night, Othello, Cymbeline.

Poetry and Prose of the fifteenth to the nineteenth century.—

*Modern Literature I.*

*Before 1660.*

Surrey, Wiat, Selections in Skeat's Specimens of English Literature from 1394 to 1579.

Spenser: Fairie Queen Book I,\* Prothalamion, Epithalamion.

Ballads: in Ward's English Poets, Volume I. Elizabethan Lyrics and Sonnets in Palgrave's Golden Treasury—Book I.

*Prose—*

Mandeville, Wycliff, Malory, Berners More and Hooker in Craik's Selections.

Sidney: Apologie for Poetry.\*

Bacon: First Twelve Essays, New Atlantis.

Browne: Religio Medici, Book I.

Milton: Areopagitica.\*

*Drama—*

Marlowe: Edward II,\* Dr. Faustus.

Kyd: Spanish Tragedy.

Jonson: Everyman in his Humour, Bartholmew Fair.

Seaumont & Fletcher: Philaster, The Knight of the Burning Pestle.

Massinger: New Way to pay old debts.

Webster: White Devil, The Duchess of Malfi.\*

*Modern Literature II.*

*Between 1680 and 1780.*

**Poetry—**

Milton: *Paradise Lost* Books\* 1 and 2 and *Samson Agonistes*.

Dryden: *Absalom & Achitophel*,\* *MacFlecknoe*.

Palgrave: *Golden Treasury of Songs*, Book II.

Pope: *Epistle to Arbuthnot*,\* *Essay on Criticism*, *Rape of the Lock*.

Collins and Gray: *Selections in Ward's English Poets*.

Goldsmith: *Deserted Village*.

Thomson: *The Seasons*, *Winter*.

Burns: *Songs in Palgrave's Golden Treasury*.

**Prose—**

Bunyan: *Pilgrim's Progress*, Part I.

Dryden: *Preface to the Fables*.\*

Defoe: *Moll Flanders*.

Swift: *Tale of a Tub*, *Battle of the books*.\*

Addison: *Selections*, Ed. Lobban.

Richardson: *Clarissa* (abridged edition, Routledge).

Fielding: *Tom Jones*.

Johnson: *Preface to Shakespeare*,\* *Milton*, *Dryden*, *Pope*.

*Selections from Great Letter Writers* (Blockie & Sons), (1  
23 to 100).

Burke's *Speeches*, edited by Selby.

Gibbon: *The Muhammadan World* (Longmans).

Dryden: *All for Love* (World's Classics).

Congreve: *Way of the World*.\*

Goldsmith: *She stoops to conquer*.

Sheridan: *The Rivals*.

*Modern Literature III.*

*After 1780.*

**Poetry—**

Wordsworth: *Selections*, edited by Nichol Smith (Clarendon Press).

Coleridge: *Selections in Ward's English Poets*.

Byron: *Vision of Judgment*.

Shelley. Keats\*: *Selections in Ward's English Poets*.

Rossetti: *The Blessed Damsel*, *Rose Mary*, *the White ship*,  
*the King's Tragedy*.



Browning: Rabbi Ben Ezra,\* Abt Volger\*, Fra Lippo Lippi,\*  
Pippa Passes.

Tennyson: In Memoriam.

Arnold: Forsaken Merman, Sohrab, Scholar Gipsy,\* Thyrsis.\*

Morris: Defence of Guinevere and other poems.

**Prose—**

Scott: Bride of Lammermoor.

Jane Austen: Pride and Prejudice, Emma.

Lamb: Essays of Elia, I Series.\*

Newman: Literary Selections (Longmans).

Thackeray: Esmond.

Arnold: Selections, Ed. Rawlinson (Macmillan).

Pater: Selections, Ed. Rawlinson\* (Macmillan).

Stevenson: Selections, Ed. Dunn (Longmans).

Meredith: Richard Feverel, The Egoist.

Hardy: Far from the Madding Crowd, Tess of the Durbervilles.

**Drama—**

Arnold: Merope.

Swinburne: Atalanta in Calydon.\*

Shaw: St. Joan.

Drinkwater: Abraham Lincoln.

**Division (c)—**

Special Period or Subject: Text-books as for the examination of 1931.

*Note.*—Candidates are required to show a detailed knowledge of books marked with an asterisk.

**Physical Science.**

BRANCH ii-A & ii-B.

**1932.**

BRANCH ii-A.

The same as for 1931 with the addition of Principles and Practice of Wireless.

Palmer;

Branch ii-B.

The same as for 1931.

## Natural Science.

1932.

### ZOOLOGY MAIN.

Main and Subsidiary.  
The same as for 1931.

### PHILOSOPHY.

1932.

The same as for 1931.

## HISTORY, ECONOMICS AND POLITICS.

(Will be prescribed later).

### ECONOMICS.

1932.

*B.A. (Honours), V-A and V-B.*

#### 1. *Public Finance.*—

*Add.* Pigou: *A Study in Public Finance.*

*B.A. (Honours), V-B.*—

#### 1. *Labour Problems.*—

*Remove.* (1) Salter: *Karl Marx and Modern Socialism.*

(2) Gilchrist: *Conciliation and Arbitration.*

(3) Bertrand Russell: *Roads to freedom.*

*Add.* (1) Survey of Industrial Relations, (Committee on Trade and Industry).

(2) Lindsay: *Karl Marx's Capital.*

#### 2. *Rural Economics.*—

*Add.* (1) Report of the Royal Commission on Indian Agriculture.

(2) Reports of the Indian Famine Commissions of 1880 and 1901.

#### 3. *International Trade.*—

*Remove.* (1) Bastable: *Public Finance.*

*Add.* (1) Taussig: *International Trade.*

## TWO LANGUAGES OTHER THAN ENGLISH.

### BRANCH IV.

1932.

The same as for 1931.

**SANSKRIT LANGUAGE AND LITERATURE**

BRANCH VI—M.A.

1932 and 1933.

The same as for Branch VI—B.A. (Hons.) for 1932 and 1933.

BRANCH VI—B.A. (Hons.)

General Part.

1932 and 1933.

The same as for 1931.

Special Part.

1932 and 1933\*

*Vyākaraṇa and Alankāra :—*

Bhaṭṭoji Dikṣita : Praudhamanōramā-Samjñā, Paribhāṣā, Sandhi, Strīpratyaya and Kāraka-prakaraṇas (Benares Edition).

Paṭaṇjali : Mahabhāṣya, I, i, āhnikaḥ i to iii (Nirnaya Sagara Press, Bombay).

Bhartr̥hari : Vākyapadiya, Kāṇḍa I (Benares Edition).

Ānandvardhana : Dhvānyāloka (Nirnaya Sagara Press).

Rasagangādhara by Jagannātha Paṇḍita : First Ānana only (Nirnaya Sagara Press, Bombay).

*Books recommended for study :—*

Goldstucker: Pāṇini, his place in Sanskrit Literature.

Belvalkar: Systems of Sanskrit Grammar.

Aristotle: Poetics.

Bain: English Composition and Rhetoric.

Vaughan: Literary Criticism.

Winchester: Principles of Literary Criticism.

Gayley and Scott: Methods and Materials of Criticism.

S. K. De: History of Sanskrit Poetics.

*Books recommended for consultation :—*

Mammāṭa : Kāvya-prākāśa

Dhananjaya : Dāśarūpaka

Courthope: Life in Poetry and Law in taste

Saintsbury: History of Literary Criticism.

\*Note.—The text-books under Special Part for 1933 Examination are subject to approval by the Academic Council.

**M. A. Degree Examination, 1932**

**TAMIL.**

The same as for 1931.

**TELUGU.**

The same as for 1931.

**KANARESE.**

The same as for 1931.

**MALAYALAM.**

The same as for 1931.

**ARABIC, PERSIAN AND URDU.**

Will be prescribed later.

## APPENDIX V

### L.T. DEGREE EXAMINATION

The following syllabuses for the subjects of the Examination have been prescribed:—

#### THE THEORY AND PRACTICE OF EDUCATION.

##### A

Physiology in relation to child and school hygiene. Study of the human organism: the different systems of the organism: the diseases of each and their prevention: unhygienic habits and their results; responsibility of the teacher; medical inspection; the function of the teacher in this connection. Physical growth of the individual and the physiological changes characteristic of each stage of development; physical culture, and games. Environment of the child: school buildings, furniture, sanitation, playgrounds—consideration of the new psychology in this connection.

##### B

Psychology in relation to the child and his development. The physiological basis of mental life. The mechanism of reaction: stimulus and response. Heredity and environment. Instincts. The senses: the purpose and methods of sense-training. Development of intellect: sensation, perception, conception, apperception, memory, association, imagination, reasoning and judgment. The emotions. Volition: the question of freedom. Individuality. Stages of mental development. The laws of learning. Imitation, play, habit-formation, attention, interest and effort. Fatigue, physical and mental. Intelligence testing, its purpose and achievements. The Group mind. Suggestion. The Unconscious in education.

##### C

Principles and methods of instruction, organisation and discipline in schools. Ideals and aims in education. Principles of the curriculum. The question of formal training. Correlation in teaching. The logical and psychological order. Factors and methods in the training of thought: analysis of a complete act of thought. Methods of discovery, verification and proof. Definition and its place in education. The place of language in education. Technique of teaching: inductive and deductive development: exposition and illustration: discussion and questioning. Individual and group work. Exercises: testing, old and modern methods reports: examinations. The grading of pupils. Time-tables: sequence of lessons. Homework; its purpose and organisation. The promotion of corporate school life; school societies;

prefects, Out-of-school activities: games; Scouts and Guides, leisure time and hobbies. Discipline, its nature and meaning; its relation to character and self-control; the question of punishment, out-of-school influences; co-operation between home and school.

A subject for special study.

For 1929 and 1930

Bilingualism in India.

(Occasional Report No. 13, Bureau of Education, India, "Bilingualism" is recommended for reading. This should be read as a piece of Scientific investigation rather than as a textbook for detailed study).

#### D (1)—ENGLISH.

I. *General*.—Objects of teaching English—its practical and cultural values. The position of English in India; the bilingual problem and its implications—(a) English a medium of instruction, (b) high standard of attainment, (c) colloquial as well as literary English.

#### II. *Methods of Teaching*—

- (a) The translation method of teaching English in India; its defects, comparison of English and Indian languages. Traditional method of language study.
- (b) The Reformed method. Its meaning, object and importance in relation to the aim of teaching English. The inhibition of the mother tongue as far as possible; the foreign tongue the medium of instruction. Results—fluency of expression, oral and written.

#### III. *Oral work*.—Its prominence in the initial stages—

- (a) Phonetics. The value of phonetics—its importance to teachers in English—the value of phonetics and phonetic drill.

The sounds of English—detailed study of their production—comparison of English and Indian sounds—methods of teaching:—(1) phonetic drill, (2) apparatus, (3) use of phonetic symbols. Value of phonetic texts (1) for teachers, (2) for pupils.

- (b) Conversation: precedes reading.

Subjects: Class-room objects; persons; actions, pictures; conversation between pupils. Importance of repetition.

IV. *The Text*.—The centre of instruction; extent to which digression is desirable. Methods of explanation—use of objects, actions, gestures and pictures; forms of verbal explanation—the apperceptive principle; the use of mother tongue, extent to which it may be used. Importance of study of language; drill in word and phrase; oral composition; means of extending vocabulary—word and phrase books—their arrangement. The requisites of a good reader—consideration of existing readers.

English life (customs, society, schools, etc., stage at which to introduce; consideration of difficulties; contrast between conditions of Indian pupils and, *e.g.*, French pupils in this respect.

Elementary study of diction in texts. Choice of words; prose and poetic diction; attention to concrete expression; rhyme and metre.

Intensive and extensive reading. The function and treatment of non-detailed texts. Creation of interest in reading. The importance of silent reading. The formation and use of class libraries.

Reading aloud and recitation from texts—pronunciation, punctuation, phrasing, intonation, stress.

V. *Grammar*.—Distinction between Grammar common to all languages and the grammar of a particular language. The need for uniformity in grammatical terms in English. The place of grammar in the reformed method of language teaching. Inductive methods; correlation with texts. The function and form of words; word order; sentence structure; importance of analysis. Grammar summaries and framing of rules. Grammar drill. Framing of grammar syllabuses. The medium of instruction.

VI. *Hand-writing*.—Outline of work in initial stages—writing charts, copy-books; transcription from texts; spelling; dictation. Importance of punctuation; syllabification in writing; difficulties arising from vernacular practice. Attention to hand-writing in exercise books, note-books and composition.

VII. *Composition*.—Correlation with texts, grammar and word-lists. Progress from reproduction to free composition; importance of oral work. Story reproduction; use of pictures; use of texts; correlation with other subjects; current events. Types of composition; (a) Essay—narrative—descriptive, etc., (b) Letter-writing, (c) Epitome, (d) Expansion, (e) Paraphrase. Translation; principles of translation; stage at which it should be introduced.

The construction of the essay—principles of sentence and paragraph structure. Oral and written preparation essential. Correction and valuation of written exercises. The difficulty of large classes.

VIII. Organisation of English teaching in schools. Timetables, free and rigid. Schemes of work; syllabuses. Notes of lessons; note-books. Class-rooms; Libraries.

#### D (2) (a)—CHILD EDUCATION.

##### I. Principles and methods of Child Study.

History of Child Education with special reference to Rousseau, Pestalozzi, Froebel and Montessori.

Experimental observations; Physiological considerations; the child's instincts.

Stages of child development—study of exceptional children and methods of dealing with them.

**Mental Intelligence Tests.**

II. A survey of recent experiments in methods of child education.

Theories of play and play methods: Importance of play in the development of the child: Free and organised play: Consideration of the choice of a child's play-things and occupation materials.

III. Self-activity, continuity, connectedness and creativeness as guiding principles in early education.

IV. Sense training; its importance in the teaching of

(a) Language, number and space.

(b) Natural interests.

(c) Class singing with special emphasis on rhythm; Simple eurhythmics.

(d) Drawing and handwork.

(e) Story and dramatisation.

V. Correlation in the teaching of the various subjects, in the framing of syllabuses and time-tables and in the application of the project method.

VI. Environment: Fatigue: Discipline.

#### D (2) (b)—MATHEMATICS.

i. *Mathematics and Mathematical knowledge.*—The nature and scope of mathematics; its relation to other branches of knowledge, e.g., physical and natural sciences, logic, philosophy, economics. Value of mathematical education: Practical and Cultural.

The acquisition of mathematical knowledge by empirical, institutional and rational processes. Working knowledge *versus* knowledge of principles underlying the processes.

The fundamental concepts of Elementary Mathematics in relation to teaching.

ii. *History of Mathematics.*—The value of the study of history of Mathematics and Mathematical teaching:—History of the important topics of Elementary mathematics, e.g., notation, metric system, directed numbers, function concept, parallel postulate.

Contribution to the pedagogy of mathematics by eminent educators, e.g., Froebel, Herbart, Montessori.

Methods of mathematics—the scientific, deductive, intuitional and creative.



**Modern tendencies in the teaching of school mathematics.**

**III. Methods of Teaching Mathematics.**—The heuristic and laboratory; synthetical and analytical; inductive and deductive; genetic and other methods, singly or in combination.

Experimental and practical mathematics. The organisation and functions of mathematical laboratories. Outdoor work.

Means of securing speed and accuracy in mathematical work. Mental, oral and written work.

**IV. The content and organisation of school mathematics.**—Organisation of school mathematics, primary, lower and upper secondary. Compulsory and elective courses.

Curriculum construction—principles underlying. The psychological *versus* logical order of development. The concentric *versus* the continuous development. The syllabus and assignments.

Separate treatment of Arithmetic, Algebra and Geometry *re* aims of teaching, position in the curriculum, organisation of subject-matter, methods of teaching, etc.

Correlation of Arithmetic, Algebra and Geometry and of mathematics with other school subjects.

A detailed study of the Madras S.S.L.C. and Matriculation syllabuses in elementary and optional mathematics.

Mathematical libraries—Students' associations.

**V. Problems bearing on the conduct of mathematical work.**—The medium of instruction.

Text-books: Their place and value. A critical study of text-books.

Notes of lessons and teacher's records of work.

Individual, group and class teaching. The Dalton plan and supervised study of mathematics.

Problems and problem solving. Collection of data for problems, Indigenous methods of calculation.

Examinations—Valuation of answers.

**VI. Intelligence Tests.**—Their place and value with reference to Indian conditions. Statistical averages and correlation.

#### D (2) (c)—PHYSICAL SCIENCE.

**Aims of science teaching**—the acquisition of useful knowledge by discovery; and exposition of the scientific or laboratory method of training. Methods not the verification of previously known facts, but finding out by means of experiment, learning by doing; training in self-reliance.

Three stages—(a) observational, (b) heuristic, (c) systematic.

Two objects, the acquirement of skill and of knowledge. Intensive method; necessity of definite conceptions.

Physical science, a sequence to elementary natural science. Co-ordination, and correlation with natural science, mathematics, drawing, geography.

Didacticism opposed to the scientific method; critical appreciation of authority.

Methods of recording work, observational and experimental.

Drawing up syllabuses and laboratory courses; continuity; sequence; directiveness. Organization and fitting up of laboratory. Induction and deduction, synthesis and analysis; in their application to the study of science. Function of hypotheses and their potency in relation to science.

Historical considerations in the study of science. Place of quantitative work in a school course.

#### D (2) (d)—NATURAL SCIENCE.

Aims of teaching Natural Science—Acquisition of knowledge by discovery. Methods not the verification of previously known facts, but finding out by observation and experiment.

Elementary Natural Science.—a Science chiefly of observation. The teaching of Natural Science may be used as (i) a training in accuracy of observation, (ii) a training in discovery of laws governing the relationships of living things to external conditions by experimental work, and therefore of the characters of the animate world, (iii) a training in finding out the principles of classification and the relationships of families.

Combination of observational and heuristic methods of teaching. Drawing and description in relationship to correct observation. Sketches to be made from the actual objects themselves.

The value of comparison.

Consideration of the characteristics of some natural orders of plants. Principles of classification with special reference to botanical system of classification. Natural and artificial systems of classification.

Arrangement of apparatus for experiments—Conducting experiments—Selection of specimens for different lessons. Value of living specimens. Necessity of an acquaintance with dried specimens to a certain extent.

The value of school museum. Fitting up and maintenance of a school museum. Necessity of observing economy in maintaining a school museum. Methods of preserving and labelling specimens. Value of Photographs. Use of the magic lantern.

School herbarium. Selection of plants for the herbarium. Methods of preparing herbarium specimens. Encouragement of the collection of specimens.

Value of a school garden and of excursions.

## D (2) (c)—HISTORY.

1. *The Meaning of History*.—Considered as (i) a Philosophy, (ii) a Science.

2. *Scope*.—The subject-matter of history—its branches, social, political, economic.

3. *The Value of Historical Study*.—

(a) Cultural—study of human nature; breadth of outlook.

(b) Practical—a school of citizenship.

(c) Ethical—training of character; instrument of moral training—patriotism.

(d) Mental training—mental processes involved—analysis, classification, generalisation, comparison, criticism, judgement.

4. *Aims of Teaching*.—

*General*—

(a) To develop a historical sense—the creation of interest in the past and understanding of the present.

(b) To secure the intelligent use of books and training in individual work.

*Special*—

Early stages.—To create interest and develop imagination.

Later stages.—To train the intellect; logical—critical—selective—descriptive powers.

5. *The Subject Matter*.—

(a) Principle of selection for early and later stages—psychological—logical.

General, national and local history; ancient and modern history.

(b) Organisation: Concentric and periodic system; outlines and special periods; chronological and topical treatment.

(c) Correlation with other subjects, e.g., Civics—Geography—Literature.

1. *Method*.—

*General*.—

(a) Oral teaching—logical series of questions with definite aim essential—teaching as opposed to lecturing.

(b) Use of text-book—emphasis and expansion of important points—selection of topics.

- (c) Preparation—note—bibliography—maps and charts.
- (d) Supervision of individual work in class as opposed to dictation of notes.

*Special—*

*Early stages.*—Narrative—biography—ballad—dramatisation—illustration—maps—museum—excursions.

*Later stages—*

*Class work:*

Oral teaching—its importance—questioning to test memory and provoke thought—analogies and illustrations—maps—charts—pictures—models. Museum—excursions.

*Individual work—*

- (a) The text-book—its use at home and in class—characteristics of good and bad text-books.
- (b) Collateral reading—its purpose—assignments and guidance.
- (c) Study of sources—method—value—limitations.
- (d) Maintenance of note-books.
- (e) Problems and exercises.
- (f) Preparation of maps, plans and charts with reference to (a) time, (b) casual relations.

7. *Preparation of Courses of Study.*—Syllabuses—schemes of lessons—critical study of schemes in use.

8. *The medium of Instruction in Indian schools.*

9. *Laboratory work in History.*—Its value, possibilities and limitations—requisites—library—source books—equipment—study hours—assignments.

10. *Examination in History.*—Oral and written—their aims and value. Standard tests. The valuation of papers.

## D (2) (f)—GEOGRAPHY.

1. Scope of modern geography, its essential principles and larger problems and a brief historical sketch of the growth of modern geography, and its pedagogy.

2. The scope and purpose of geography in schools, its educational value and its relation to the other subjects of the curriculum, e.g., Science Subjects, Mathematics, History, Drawing, Hand-work.

3. The organization of courses of study and the construction of syllabuses, with special reference to the following:—

- (a) the environment of the school (rural or urban);

- (b) the type of the school (secondary or elementary);
  - (c) correlation with the courses in other subjects.
  - (d) the value of descriptive and argumentative geography at different stages in the course;
  - (e) the position of physical, economic, historical and regional (including home) geography in a scheme of school work;
  - (f) the value and possibilities of practical work including map drawing and elementary cartography, observational work, out-door work and excursions and quantitative work.
4. Preparation, organization and conduct of lessons, types of lessons, casual relation and the place and value of geographical explanations—the adaptation of teaching of geography to systems of auto-education or laboratory methods.
  5. Examinations and test papers.
  6. Source of geographical information and collateral reading.
  7. Geographical equipment and its use.

#### D (2) (g)—SANSKRIT.

##### (a) General: Preliminary

Objects of teaching Sanskrit. The standard to be aimed at in Secondary Schools and Pre-collegiate Sanskrit Schools. The position of Sanskrit in India; its cultural and practical value. The inter-relations of Sanskrit and Indian vernaculars. Comparison of Sanskrit and English, with particular reference to their Grammar and structure. Practical and theoretical study of Sanskrit.

##### (b) Methods of Teaching

The translation method and the direct method as applied to Sanskrit study; traditional methods of Sanskrit study—their merits and defects, the external and internal difficulties of the Sanskrit language and how best to overcome them.

##### (c) The Early Stages of Sanskrit Teaching

The sounds of Sanskrit, detailed study of their production the organic and acoustic methods of studying Sanskrit sounds. The means of teaching them to pupils. The teaching of Sanskrit handwriting; the place of dictation and transcription; translation. Reading and recitation. The Sanskrit text as the centre of instruction; manner of exposition, means of extending the Sanskrit vocabulary. Inductive methods of Sanskrit teaching. Sanskrit Grammar. The use of Sanskrit *Korāś*.

## (d) The Later Stages.

The choice of Sanskrit texts. Lines of development in teaching the various aspects of Indian life. Correlation with the Geography and History of India. Correlation with the History of Indian civilization and culture. Study of diction in Sanskrit texts; types of Sanskrit Composition. Sentence structure in Sanskrit. Paraphrase and translation with reference to Sanskrit. The Historical and Comparative Methods of studying the Sanskrit Language and Literature. Study of Organization of Sanskrit teaching in English schools; consideration of time-tables; formation of class libraries and general libraries.

## D (2) (H) DOMESTIC SCIENCE.

*Detailed syllabus showing the scope of Domestic Science as a School subject...*

SUGGESTED TEXT-BOOKS : *Parts* of the following :

*Macnally's Sanitary Hand-book for India*, 6th edition, revised and re-written by A. G. A. Russell, printed by the Superintendent, Government Press, Madras.

*A Treatise on Hygiene and Public Health*: with special reference to the tropics, by Birendra Nath Ghosh, 5th edition, Calcutta Scientific Publishing Co., 1924.

*Pre-Requisite*: It is suggested that as a knowledge of Chemistry and Biology is essential to the understanding of the subject, this course be open to Natural Science graduates or Chemistry graduates only.

It is assumed that the elements of Physiology and Personal Hygiene are known to the students.

## SYLLABUS

## PART I—NUTRITION

(a) Their main divisions, *i.e.*, carbohydrates, fats, proteins, mineral water, vitamins.

(b) The importance to the body of each constituent.

(c) The amount required of each constituent.

2. The cooking of food: Its underlying principles; use and care of fuels; practical work. (See detailed syllabus.)

3. The composition of common foods: a general study by means of charts and diagrams of the relative amount of the above constituents in the foods in every day use.

4. Planning of balanced dietaries for infants, growing children, adults, the aged, expectant and nursing mothers, invalids.

5. Food adulteration.
6. Wise purchase of food.
7. Vegetable foods *vs.* animal foods for diet in India.

#### PART II—HYGIENE AND SANITATION

##### 1. *Parasites of Man:*

###### (a) Vegetable parasites:

(1) Yeasts; their relation to (i) Bread-making; (Practical work: the preparation of yeast and making of appams and bread), (ii) Fermentation; (Experiments to show fermentation).

###### (2) Moulds: illustrated by experiment.

(3) Bacteria: (i) useful bacteria, *e.g.*, those concerned with putrification and decay, and those that take nitrogen from the air for the leguminous grains or pulses, (ii) harmful bacteria—considered under a separate heading.

###### (b) Animal Parasites:

(1) Protozoa, *e.g.*, malarial parasite.

(2) Metazoa, *e.g.*, hook-worm, tape-worm.

(3) Temporary parasite: bed bugs, lice, etc.

Means of prevention and destruction.

##### II. *Communal Diseases:*

###### (a) Prevention; incubation period, symptoms, treatment of—

(1) Diseases carried by insects; *e.g.*, plague, malaria, typhoid, dysentery, sore-eyes.

(2) Diseases carried by bacteria floating in the air; *e.g.*, tuberculosis, colds, coughs.

(3) Diseases communicated through direct or indirect contact; *e.g.*, small-pox, measles, scabies, whooping cough.

###### (b) Susceptibility and immunity: the significance and importance of vaccination and inoculation.

###### (c) Care of patients with communicable diseases for the benefit of both the patient and the community.

###### (d) Personal cleanliness: baths (hot and cold), use of soap, cosmetics, etc.

##### III. *House-Planning:* according to sanitary principles with attention to.

###### (a) Water-supply.

###### (b) Drainage and conservancy.

###### (c) Ventilation and lighting.

###### (d) Care of house; fittings, furniture, decoration.

- IV. Excursions:** to see the public market, slaughter-house, water-works, sweeper villages, drainage systems, etc.

**PART III—CHILD WELFARE IN HOME AND COMMUNITY**

**I. Causes of Infant Mortality.**

- (a) The evils of child-marriage, and the marriage of the deceased and feeble-minded.
- (b) Importance of pre-natal care for mother and child.
- (c) Importance of skilled attendance and absolute cleanliness at birth.
- (d) Correct feeding of the child up to fifth year and feeding of mother while nursing.
- (e) Clothing, sleep, cleanliness, illness of the infant.
- (f) Training of the infant in the right physical habits.

**II. Visits to Child Welfare centres and baby clinics in hospitals,** to see the above principles in practice.

**III. Correlation with the Psychology and School Hygiene courses** in the discussion of the training of children.

**IV. Treatment of Accidents and Injuries.**

**PART IV—THE FAMILY INCOME**

**I. The principles of family expenditure.**

**II. The meaning and importance of a budget.** Preparation of monthly and annual budgets.

**III. The keeping of family accounts.**

**IV. The evils of debt.**

*Plan for a Practical Course in the Principles and Practice of Cooking.*

**1. Equipment.**—A laboratory—kitchen. For each member of the class, a small earthen fire-place and a complete set of small utensils. For the whole class, grinding stones, one large fire-place, one set of large utensils, dishes for serving cooked food, microscope, test-tubes and spirit lamps, food-scales, measures, pickle-jars, outfit for pasteurization of milk.

**2. Individual work.**—Except where it is impossible to cook in small quantities, each member of the class should work alone.

**3. Correlation.**—The course is directly correlated with the theoretical work in Nutrition, Child Welfare, and should be given either as part of, or parallel to, the theory classes, just as experimental work and theory are combined in Chemistry.

**1. (a) Carbohydrates:**

- (1) *General Principles.*—Starch: A study of starch grains under the microscope. Test for starch. Experiments to show effect of saliva upon starch, effect



of heat upon starch. General principles of cooking starch. The use of *leavening agents* (*soda, etc.*), in cooking.

- (2) *Preparation*.—Rice. Comparison of different kinds, before and after cooking. Preparation of paddy. Cooking of rice in different ways. Making of preparations from rice-flour,—as *appam, idli, vivikkai, puttoo, palagarams*.
- (3) *Wheat*: Preparation of rolong, wheat-flour, and cracked wheat, and the use of these in cooking *conjees, puttoo, uppumavoo, palagarams, luddoo, chupatties, poories*.

Ragi	} A comparative study of their grains,
Kambu	
Cholam	

their preparations, and use in *conjee puttoo*, and bread.

*Barley*: Use of barley-water and barley *Conjee* for infants and invalids.

*Potatoes*: Various preparations.

- (b) *Sugar*.—Comparison of various sugars, e.g., jaggery, cane-sugar, milk-sugar, fruit-sugar, glucose.

Experiments to show the different stages in the boiling of sugar.

Preparation of various sweets.

**II. Fats.**—Comparison of different oils. Their use in cooking. Preparation of curds, butter-milk and ghee. General principles of frying.

### III. Proteins:

- (1) *General Principles*.—Test for protein. Digestion of protein in a test-tube by artificial gastric-juice. Study of effect of heat on albumen.

- (2) *Preparation*.—(N.B.—Sub-sections (a), (b) and (c) are optional.)

- (a) *Mutton*.—A study of the different parts of the animal, and their use in cooking. Cooking of these different parts in curries, cutlets and soup. Preservation of mutton.

- (b) *Fowl and Fish*.—Choice and preparation of fish and fowls for cooking. Cooking in various ways, including soup. Preservation of fish.

- (c) *Eggs*.—The choice and purchase of eggs. Boiling of egg in a test-tube to watch the different stages in coagulation.

Preparation of eggs in various ways, e.g., egg-flip, omelet, poached, custards, etc., use of eggs in baked and fried cakes,

- (d) *Leguminous vegetables*.—Preparation of dhal, beans, and gram in curries and vadais, palagarams, omapodi, thosai, murukku, etc. Roasting of peas, ground-nuts, bengal-gram, and their nutritive value.

IV. *Minerals and Vitamins*.—Cooking of fruit and vegetables. Preservation of fruits and vegetables *e.g.*, lime-pickle, mango-pickle, cucumber-pickle, etc., spicing.

V. *Beverages*.—Preparation and comparative value of coffee, tea and cocoa.

To be done in connection with lesson on Child Welfare      The testing and care of milk. Preparation of bottles for infants of different ages. Pasteurization.

The testing and treatment of drinking-waters, preparation and care of filters.

**APPENDIX VI.****SYLLABUSES FOR THE B.Sc. DEGREE  
IN AGRICULTURE****AGRICULTURE INCLUDING ANIMAL HYGIENE****PART I**

1. *Definition of Agriculture.*—Its importance and history, relation of science to agriculture.

2. *Geology.*—Origin of the earth's crust; formation of rocks and minerals and their classification; chief rocks and minerals of the Madras Presidency.

3. *Meteorology.*—Air, its composition; air movements; wind currents; monsoons. Rainfall and climate; factors which influence climate. Influence of climate and seasons on farming generally and with special reference to different parts of the Presidency. Weather forecasts; their objects.

4. *Soils.*—Formation, classification and properties. Soil and sub-soil. Soils of the Madras Presidency. Functions, sources of losses and gains to soils.

5. *Tillage.*—Necessity, methods and effects.

6. *Farm implements and machinery.*

(a) Ploughs and ploughing.

(b) Cultivators, harrows, hoes, grubbers, rollers, drills

(c) Harvesting tools and machinery, threshing machines, winnows, gins.

(d) Carts and tools.

(e) Power cultivation.

7. *Soil fertility.*—Maintenance, rotations, fallows, and mixtures.

8. *Soil Improvement.*—Including soil reclamation, various methods adopted.

9. *Irrigation.*—Importance. Methods. Productive and protective irrigation works. Effects of irrigation works on the tract irrigated. Management of irrigated lands. Duty of water.

10. *Drainage.*—Importance, methods; relation of irrigation to drainage.

11. *Animal husbandry.*—Cattle, sheep and goats. Their importance to the farmer. Description of breeds and the breeding tracts of the cattle of the Presidency. Principle of feeding cattle, actual rations, their value and cost. Management of livestock,

their housing and care. Objects, principles and methods of breeding. Rearing of calves, sheep and goats—chief breeds, feeding and management.

### *Practical Work*

The students will undergo practical training in all branches of farm work. In addition each student will himself cultivate half an acre of dry land and one-tenth of an acre of wet land and maintain cultivation sheets and observation note-books.

### ANIMAL HYGIENE

Farm animals; the ox; buffalo, goat and sheep. Comparative study of the skeleton and principal organs of these animals, the function of the digestive, circulatory, respiratory, urinary and genital systems. Care of animals in health and disease. Diagnosis of common ailments and treatment thereof by simple surgical and medicinal methods.

Students will receive practical training in handling and treating such animals, in performing simple operations and in mixing and administering simple medicines.

### PART II

12. *Crops*.—Classification of crops: cereals, pulses, oil seeds, sugarcane, fibres, dyes, drugs and narcotics, fodder crops; fruits and vegetables and miscellaneous crops of the Presidency. The cultivation of the above in detail and their preparation for the market.

Cocoanut, palmyra and other trees of economic importance; market gardening; pastures; their management; hay and silage making, rotations, mixtures.

13. *Improvement of crops*.—Importance of seed selection, (a) single plant, and (b) bulk.

14. *Preservation and storage of seed*.—Drying, steeping and fumigation.

15. *Manures and manuring*.—Principles and classification. Farm yard manure; sheep manure; dung of horses and pigs; fish manure; guano; bones; bonemeal; soot; dried blood; slaughter-house refuse; night soil; poudrette; sewage; oil cakes; green and chemical manures.

16. *Dairy farming*.—Dairy cows, their feeding, management and breeding.

Dairy products, milk, physical properties, chemical composition, treatment and disposal.

Cream, separation, curdling of milk, starters, their object, skim milk, butter making, curds and ghee manufacture. Relation of bacteria to dairy.

*Dairy equipment.*—Building and machinery.

*Dairy economics.*

17. *Agricultural experiments.*—Objects and scope. Methods of conducting experiments. Calculation of experimental error.

18. *Farm management.*—Location and laying out of farms. Farm buildings, their location, arrangement and cost. Equipment, distribution and management of farm labour—human and animal.

Disposal of manure.

•Systems of farming. Cost of cultivation of crops. Valuation of land and crops.

Farm accounts.

19. *Co-operative production and marketing of agricultural produce.*—Purchase of implements and manures.

Co-operative credit societies.

20. *Agricultural economics.*—Its relation to general economics. Theories of value and price. Laws of demand and supply. Markets. Factors of production—land, labour and capital.

*Land Settlements.*—Crop-cutting experiments, land tenures, permanent and ryotwari. Relation between landlord and tenant. Land acquisition and land alienation acts. Leases, assessment. Water rates, Large and small holdings. Fragmentation and consolidation of holdings.

*Labour.*—Skilled and unskilled. Permanent and casual. Wages, kind and money. Efficiency of labour.

### *Practical Work*

Students will undergo practical training in all branches of animal husbandry, including management, handling and feeding. Practical dairy work, including handling and separation of milk, butter making, ghee manufacture.

### *Tours*

They will also receive practical training in farm management. Every student will maintain an observation note-book in which details of practical work and other observations he makes from time to time will be recorded.

During their course the students will be taken out on day excursions and on not less than two tours in representative tracts of the Presidency.

## AGRICULTURAL BOTANY

## PART I

*The external morphology of Angiosperms.*—The general form, structure and modifications of root, stem, leaf, inflorescence, flower, fruit and seed.

*Histology.*—The plant cell and the nature of its contents. Cell division. The chemical, physical and physiological characters of protoplasm. The different kinds of tissues, their origin, nature and development. Primary and secondary tissues and their distribution in the plant body. The plant skeleton and the tissues of which it is composed. The internal structure of normal roots, stems, leaves, anthers and ovules of plants.

*Elements of vegetable physiology.*—Absorption of water and gases and their movement in the plant. Photo-synthesis and synthesis of proteids. Translocation and storage of food materials and their digestion. Respiration in plants. Growth, movements and irritability in plants. Reproduction in plants. Dispersal of fruits and seeds.

*The classification of flowering plants.*—General principles. A knowledge of the general characters of the following Families or Natural Orders mainly based on crop plants, plants of economic importance and weeds. Anonaceae, Cruciferae, Malvaceae, Rutaceae, Mitaceae, Anacardiaceae, Leguminosae, Myrtaceae, Cucurbitaceae, Umbelliferae, Rubiaceae, Compositae, Asclepradeae, Convolvulaceae, Solanaceae, Labiatae, Amarantaceae, Piperaceae, Euphorbiaceae, Urticaceae, Scitamineae, Amaryllideae, Liliaceae, Palmae, Aroideae, Cyperaceae and Gramineae.

*Physiology and Ecology of Plants.*—The water culture or sand culture method of rearing plants. Chemical composition of plants. The essential and non-essential elements of plant food. Sources of energy in plants. Enzymes and their action. Special modes of nutrition in plants.

External factors and their influences on the plant. Distribution of plants and the factors governing it with special reference to common weeds and crop plants. Different types of vegetation, such as Xerophytes, Mesophytes, Halophytes and Hydrophytes.

*Practical Work*

Students will examine and describe plants of the families or groups specified in the syllabus, make dissections and drawings of the various parts of plants and construct floral diagrams and prepare sections of parts of plants for the microscope so as to illustrate their structure. They will carry out simple experiments in plant physiology.

**AGRICULTURAL BOTANY INCLUDING MYCOLOGY****PART II**

*Agricultural Botany.*—The cultivated plants and their origin. Differences between cultivated and wild plants. Methods of improvement of crops. Seed testing. Recognition of the seeds of the common weeds and crop plants. The morphology and physiology of the cereals, pulses, fibre plants, vegetables, oil-seeds and the chief industrial and economic crops under cultivation.

Vegetative and sexual reproduction. Cross and self-fertilization. Principles of Heredity, Mendelism and plant breeding. Theories of evolution, variation and origin of species.

*Horticulture.*—The principal horticultural operations. Methods of grafting, budding and pruning. General methods of propagation of plants. Recognition of the common fruits and fruit trees.

*Cryptogams.*—The main points of structure, development and life history of the following groups:—Blue green and Green-Algae, Characeae, Bryophyta, Filicineae and Lycopodiaceae.

*Mycology.*—The structure of fungi—their modes of nutrition and reproduction. Dissemination of fungi and infection of host plants. Effect of fungi on host plants. Methods of control of plant diseases. Classification of fungi and the character of the main groups. Disease of crops.

**Practical Work**

Candidates will examine the common weeds growing in cultivated fields and their seeds, graft and bud fruit trees and flower shrubs, recognize, describe and refer to their families crop plants and dissect and prepare sections to illustrate their structure under the simple and compound microscopes.

In Mycology they will observe the simple laboratory method of examining a diseased plant, planting and culture, etc., and simple infection experiments.

**AGRICULTURAL CHEMISTRY****PART I**

A. Inorganic Chemistry.—Portions done in the Intermediate Course to be revised, with special reference to general principles.

B. Organic Chemistry.—Composition, purification and analysis of organic compounds. Classification, compound radicals, open and closed chains. Saturated and unsaturated compounds. Constitutional formulae, Isomerism, metamerism, polymerism.

The hydrocarbons of the methane, ethylene and acetylene series. General properties.

Monhydric alcohols. Alcoholic fermentation. Wood spirit Ether. Aldehydes and ketones. Fatty acids and their derivatives. Esters. Amines. Cyanogen compounds, Cyanomide, Aminoacides. Urea and ureides, Glycol, Lactic, Oxalic, succinic; malic; tartaric; and citric acids.

Glycerine, fats, oils and soaps.

The carbohydrates. Optical activity. The polariscope.

*Aromatic compounds.*—Benzene and its chief derivatives. The phenols. Aromatic aldehydes, ketones and quinones, Tannin, indigo, alkaloids, glucosides and essential oils. The proteins.

*C. The Soil.*—Physical properties. Mechanical analysis. Relation of soils to water. Relation of soils to temperature. Soil gases. Reactions taking place in soils. Dormant and available plant food. Retention of bases and acids. Chemical analysis. Interpretation of results. Injurious salts in soil. Alkaline lands and their formation and amelioration.

Biological action in soil, and breakdown of carbohydrate and protein material.

### *Practical*

A. Qualitative analysis of salts or simple mixtures of salts, containing bases and acids of common occurrence and of agricultural importance.

B. Identification of commonly occurring organic substances, e.g., important carbohydrates—acids, such as acetic, lactic, oxalic, tartaric, citric and hydrocyanic and alkaloids—general tests.

C. *Volumetric analysis.*—Acidimetry, alkalimetry, determinations employing permanganate, iodine and thiosulphate and silver nitrate.

D. Gravimetric estimation of iron, aluminium, calcium, magnesium and potassium and sulphuric, hydrochloric, phosphoric and carbonic acids.

E. Examination of soils for physical properties. Mechanical analysis. Fixation of salts. Chemical analysis. Nitrification.

### PART II

*Manures.*—Necessity for manures. Soil exhaustion, minimum cropping value. Limiting factories. Classification of manures. The chief nitrogenous, phosphatic and potash manures, their manufacture, application and modes of action. Conservation of farm yard manure. Green manures. Analysis and valuation of manures.



*Chemistry of the plant.*—Essential elements of plants and their functions. Proximate constituents of plants. Chemical changes occurring during germination and growth. Photosynthesis. Important enzymes and their action. Analysis of plants and general composition of South Indian crops. Chemistry of crop products.

*Animal Chemistry.*—Composition of the animal. Composition of fodders and feeding stuffs and their analysis. Function of different nutrients. Vitamines. Digestion and absorption. Digestive co-efficients. Nutritive ratios. Calorific values. Starch equivalents. Formation of flesh, fat and milk. Feeding standards. Calculation of rations. Manurial values of foods.

*Dairy Chemistry.*—Composition of milk and milk products. Physical and chemical properties. Analysis and detection of adulteration. Bacteria in general relation to the dairy.

#### *Practical*

Estimation of nitrogen by Kjeldahl's method and calorimetric estimation of ammonia and nitrates.

Analysis of manures.

Analysis of feeding stuffs and fodders.

Analysis of milk and butter.

Estimation of important carbohydrates:—Starch, sucrose, and glucose.

Examination of commonly occurring fats and oils—adulteration.

Estimation of oils in oil-seeds.

Examination of the more important vegetable and animal proteins.

Examination of water for irrigation purposes.

#### **Syllabus of studies in Agricultural Zoology**

Relation of Zoology to Agriculture. Scope of Zoology. The different aspects of zoological study. The most important points concerning the structure, the binomics, and the affinities of typical or familiar forms in the following groups with special reference to forms of economic importance.

Protozoa, Porifera, Coelenterata, Vermes. Echinodermata. Mollusca Arthropoda, Fishes, Amphibians, Reptiles, Birds, Mammals.

Economic and applied entomology. Insects and man. Insect pests. Principles governing increase and decrease of pests. Methods of pest control. Insect pests of different orders, such as grasshopper pests, beetle pests, etc. Pests of different kinds of crops. Pests of stored products. Pests of cattle. Household pests. Disease carriers. Useful and beneficial insects,

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*Practical.*—A practical knowledge of the general form and the main differentiating features of the types.

Amoeba, Paramoecium, Earthworm, Prawn (external character only), Scorpion, Cockroach, Fresh Water Mussel (external characters), Fish (external characters), Frog, Fowl and Rat.

Identification and investigation of the important insect pests of South India. Practical observation of the collection, rearing and preservation of insects and methods of control against pests.

### **Agricultural Engineering**

Elementary surveying and levelling. The use of the chain, prismatic compass and plane table, mensuration.

Plan drawing, estimating the construction of simple buildings and machines. Elementary applied mechanics.

Farm machinery, sources of power.

Elementary Hydraulics, gauging flow of water in channels and pipes.

Practical handling of farm machinery and engines.

Practical carpentry and smithy work.

## APPENDIX VII.

### Syllabuses for courses of Study in Medicine

#### Inorganic Chemistry Syllabus for the Pre-Registration Examination.

Candidates will be expected to understand the elements of Chemistry included in the syllabus for the Chemistry part of the Intermediate Examination, and in addition to have an elementary knowledge of the following subjects:—

The general properties of solids, liquids and gases.

The gas laws and the kinetic theory of gases.

The general properties of solutions, including osmotic pressure and the methods of measuring it, both direct and indirect.

Electrolysis and the theory of ionic dissociation, including the theory of hydrogen-ion concentration and its measurement.

The law of mass action and its application to chemical equilibria.

Colloids, including the effect of surface on chemical actions.

Catalysis and the general conditions of catalytic actions.

Some elementary ideas on the constitution of matter, the classification of the elements and radioactivity.

#### *Practical Examination.*

Candidates will be expected—

to be familiar with the ordinary materials and apparatus used in laboratories, and with such operations as filtration, solution, distillation, drying, precipitation, crystallisation, and extraction with immiscible solvents.

to be familiar with the use of a chemical balance and the use and calibration of graduated flasks, pipettes and burettes;

to do easy preparations of inorganic substances;

to purify or to make an intelligent attempt to purify a known substance;

to perform simple quantitative exercises, such as the determination of melting points, boiling points, densities, and the determination of the amount of water in a substance or of the amount of ash left on the ignition of a substance;

to perform any easy gravimetric estimation, for example, a sulphate as  $\text{BaSO}_4$ , carbon dioxide by direct weighing, chloride-ion as  $\text{AgCl}$ , calcium as  $\text{CaO}$ ;

to prepare and use in simple volumetric estimations standard solutions of acids, alkalies, permanganate, iodine, thiosulphate and silver nitrate;

to determine the approximate hydrogen-ion concentration of a given solution by means of indicators;

to attack with intelligence any simple chemical problem, such, for example, as the separation of two known substances and the preparation of a standard solution of a substance that cannot be weighed.

The Examiners will use their discretion as to whether or not books may be allowed for the whole or part of the practical examination.

### **Syllabus in Physics for Pre-Registration Examination.**

The course in Physics shall include a more extended study of the subject matter included in the Intermediate Syllabus and in addition the following:—

#### *General.*—

Measurement of small intervals of length and of time; the electrically-driven turning fork and the electrical chronograph; graphic method of registering movement.

Periodic motion; uniform circular motion; centrifugal and centripetal forces; centrifugal separators and centrifugal pumps. Moment of Inertia. Simple harmonic motion. Simple pendulum; compound pendulum; torsion and magnetic pendulums.

Properties of matter: Elasticity; Hooke's Law; effect of loading and unloading a wire. Young's modulus and co-efficient of rigidity. Molecular phenomena in liquids; osmosis and diffusion; surface tension and capillary phenomena.

Liquids in motion in rigid and elastic tubes with special reference to the human vascular system; Principle of Continuity: Torricelli's principle; Poiseuille's principle; Bernoulli's principle.

Gas laws and their explanation on the basis of the Kinetic Theory of Matter. Van der Waal's Equation; the critical constants of a gas.

The meteorological elements; temperature in shade, in the open and in Vacuo; aqueous vapour pressure; clouds and rainfall; pressure, direction and velocity of wind; periodic winds; land and sea—breezes and monsoons; instruments for measuring the meteorological elements. Weather and climate.

#### *Heat.*—

Thermometry; dilatation; change of state; calorimetry; water and air calorimeter; calorific value of fuels and their determination; bomb calorimeters.

Radiation and absorption. Newton's law of cooling. Theory of exchanges. Methods of detecting and measuring thermal radiation.

The mechanical theory of heat. First and Second Laws of Thermodynamics. The ideal heat engine. Efficiency.

*Sound.*—

Production and propagation of a longitudinal wave in a material medium: velocity of propagation; Newton's formula and Laplace's correction; vibrations of strings and of gas columns. Resonance Sound producers including the Vocal chords. Sound receivers including the human ear.

*Light.*—

Transverse waves and their production and propagation; velocity of propagation.

The wave theory of light; Huygens principle; rectilinear propagation, reflection and refraction of light on the basis of the wave theory.

Simple interference phenomena; qualitative study of Fresnel's biprism and double-mirror. Newton's Rings.

Double refraction. Polarisation. Saccharimetry.

The eye as an optical instrument. Defects of the eye: myopia, hyper-metropia and astigmatism. Spherical and cylindrical spectacle lenses; power and numbering of lenses.

The compound microscope; spherical and chromatic aberrations and how they are eliminated; magnification; oil immersion objective.

The spectroscope: emission and absorption spectra; direct vision-spectroscope.

*The photographic camera.*—*Electricity.*—

Electric capacity and condensers.

The Wimshurst machine.

The quadrant electrometer.

Non-polarisable electrodes.

Conductivity of electrolytes; ionisation and migration phenomena. The capillary electrometer.

Thermo-couple and thermopile.

Electro-magnetic induction; mutual and self induction; the induction coil.

Phenomena accompanying the passage of high-tension currents through rarefied gases; Cathode rays and X-rays. X-ray photography.

**Syllabus in Practical Physics.***General.*—

The screw-gauge, the spherometer and the vernier microscope.

The falling plate, the Fletcher's trolley or the Atwood's machine to determine 'g' or 'n'

Compound pendulum, torsion pendulum and magnetic pendulum.

Young's modulus by stretching; tenacity.

Surface tension: (a) rise in a capillary tube. (b) surface tension balance.

Determination and comparison of the viscosities of liquids.

*Heat.*—

Co-efficients of expansion.

Determination of specific and latent heats by the method of mixtures.

Specific heat by the method of cooling.

Mechanical equivalent of heat.

Thermal conductivity.

*Sound.*—

Sonometer; resonating columns of gases.

*Light.*—

Focal lengths of thin lenses and combinations of lenses.

Determination of wave length by (a) Newton's rings,

(b) Diffraction grating.

Saccharimeter

Spectrometer and spectroscope.

*Electricity.*—

Laws of Electrolysis.

Resistance with the P. O. Box.

Comparison of E. M. F's. by the potentiometer.

The electrical calorimeter.

Conductivity of an electrolyte.

Thermo E. M. F.

Comparison of capacities.

Co-efficient of mutual induction.

## BIOLOGY.

The examination in *Biology* shall comprise the subjects included in the following syllabus, which is intended only to indicate its general scope and character:—

### A. General Biology.

The distinctive properties of living and non-living matter.

The properties of protoplasm.

The cell. Cell division.

Tissues and organs. Division of physiological labour and differentiation of structure.

The differences between animals and plants.

*B. Botany.*

The structure, life-history, and physiology of yeast, Bacteria, Penicillium or other mould, Spirogyra, Chara, fern.

The elements of the morphology and physiology of the Angiosperms embracing (a) the structure (macroscopic and microscopic) of the root, stem and leaf; (b) the structure of a typical flower and modifications of the type; (c) the inflorescence, and the principal types of branching; (d) the structure and development of the seeds and embryo; (e) the principal types of fruits; (f) the dispersal of seeds and fruits; (g) the main facts in relation to nutrition, growth and reaction to environment.

The reproduction and life-history of Angiosperms.

**Organic Chemistry Syllabus.**

The examination in Organic Chemistry shall comprise the following:—

The ultimate analysis of organic compounds, and estimation of carbon, hydrogen, nitrogen, sulphur, phosphorus and the halogens.

The determination of empirical, molecular, and structural formulae, and of molecular weights of organic substances.

The constitution and most important reactions and relationships of the following groups of compounds, illustrated in each case by a reference to a few of their most important members:—

*Aliphatic series.—*

Paraffin. Unsaturated hydro-carbons. The different classes of alcohols and their derivatives. Halogen and nitro derivatives of the hydro-carbons. Aldehydes. Ketones. Acids. Sulphonic acids. Simple ethers. Esters. Amines. Phosphines. Arsines. Amido-acids. Amides. Nitriles. Cyanides. Urea.

*Aromatic series.—*

Benzene. Toluene and their simple derivatives.

Phenols with special reference to phenol, pyrocatechol, resorcinol, and hydroquinol, pyrogallol.

Benzyl alcohol, Benzaldehyde, benzoic acid, salicylic acid, gallic and tannic acids, phthalic acids, phenolphthalein, Glucosides, and Alkaloids,

*Practical Examination.*

The detection of the following elements:—Carbon, hydrogen, nitrogen, sulphur, phosphorus and the halogens.

Preparation of chloroform and of iodoform from ethyl alcohol and preparation and hydrolysis of an ester and of an amide.

Tests for and reactions of methyl alcohol, ethyl alcohol, glucose, cane sugar, phenol salicylic acid, formates, acetates, oxalates, cyanides, tartarates, citrates, morphine, strychnine; quinine, cinchonine and urea.

The preparation of a fatty acid from a fat. The determination of the molecular weight of a fatty acid by titration.

Candidates will be required to bring to the practical examination note books containing record of their previous practical work. These note books must be certified by the teachers of the candidates as being the actual working notes made by them in the laboratory.

(Examiners will use their discretion as to whether or not the candidates may be allowed books for the whole or part of the practical examination).

**PHYSIOLOGY.**

*Syllabus.*

*Muscle and Nerve.—*

Use of induction apparatus—structure and properties of muscle—effects on contraction of loan and fatigue—chemical thermal, and electrical changes in muscle—conduction in nerve—Polarisation phenomena in nerve—reaction of degeneration.

*Central Nervous System.—*

Reflex action in 'Spinal' frog and in man. Structure and functions of the Spinal cord. Spinal mechanism of co-ordinated movements.

Structure and functions of the Brain Stem. Connections and functions of cranial nerves.

*Cerebellum.*

General structural arrangements of the Cerebrum and its functions. Cerebral localisation.

Autonomic nervous system.

*Special senses—*

Muller's law of Specific irritability of nerves.

Structure of the eye-ball. Light reflex. Mechanism of accommodation. Refraction of the eye. Common optical defects. Use of ophthalmoscope. Perimeter. Retina and its connections. Formation of retinal images. Colour vision and contrast.

Structure of auditory apparatus. Auditory sensations. Labyrinthine impressions.



Use of Laryngoscope.

Cutaneous sensations. Gustatory and olfactory sensibility.

*Digestion.*—

Secretion and properties of the digestive juices and bile.

Movements of the stomach and intestines.

Absorption of foodstuffs.

*Metabolism.*—

Metabolism of proteins, fats and carbohydrates. Glycosuria. Estimation of Metabolism. Nitrogen, balance. Influence of work and starvation on Metabolism. Normal Diet.

Temperature of man and its regulation.

*Blood.*—

Red and white blood corpuscles, their origin, life history and functions. Haemoglobin and its derivatives, Haemolysis. Coagulation. Reaction of blood. Estimation of volume of blood, corpuscles and Haemoglobin.

*Circulation.*—

Physiological anatomy of the Heart, and action of valves. The mechanism of heart pump. Causation of heart beat. Properties of cardiac muscle. Factors influencing the activity of cardiac muscle. Output of heart. The nervous regulation of the Heart. Heart reflexes.

Blood pressure. Velocity of blood. Pulse. Capillary circulation. Vasomotor mechanism. Chemical regulation of blood-flow. Influence of exercise on circulation.

Lymph and its formation. Lymphagocytes.

*Respiration.*—

Mechanics of Respiratory movements. Chemistry of respiration. Regulation of respiration. Effect of changes in the air breathed. Estimation of total respiratory exchange and of composition of expired and alveolar air.

*Excretion.*—

Urine, its composition and characters, Secretion of Urine.

Physiology of Micturition.

Skin and skin glands. Their structure and functions.

*Ductless glands.*—

*The Physiology of reproduction.*

*Secretion and properties of Milk.*

## HISTOLOGY.

Preparation of specimens of normal tissues, either fresh or previously prepared, so as to demonstrate their minute structure.

Application of the commoner histological methods.

Recognition and description with diagrams, of microscopic preparations of any normal tissue.

### PRACTICAL PHYSIOLOGY.

The methods employed for the demonstration of fundamental physiological processes and performing simple experiments.

#### *Theory:* Biochemistry Syllabus.

- I. The Chemistry of Food, (a) Inorganic,
  - (b) Organic Chemistry of Proteins, fats and Carbohydrates,
  - (c) Vitamins.
- II. The Chemistry of Digestion and absorption in Man
- III. Metabolism—General and special.
- IV. The Chemistry of Respiration and acidosis,
- V. The Chemistry of Blood and Lymph.
- VI. The Chemistry of Urine and faeces.

#### *Practical.*—

Properties and Re-actions of (a) Carbohydrates:—  
Glucose, Levulose, Maltose, Lactose, Canesugar, Starch, Glycogen and Dextrins.

(b) Fats—olive oil, oleic acid and Palmitic acid, glycerol and cholesterol.

(c) Proteins—Albumin and Globulin, Metaproteins—Proteoses—Peptones, amino acids and mucin, gelatin, and casein.

Estimation of Carbohydrates, glucose, Levulose. Maltose, Lactose.

Estimation of amino-acids.

Properties of Digestive Enzymes—Biles—analysis of Gastric contents.

Qualitative tests and properties of Blood and urine.

Quantitative Estimation of chlorides, urea, Sugar, Non-Protein-Nitrogen, creatinine and uric acid in Blood, and chlorides, sulphates, Phosphates, urea, sugar, creatinine, Ammonia acidity and uric acid in urine.

Estimation of alveolar carbon-di-oxide by Fredericia's method.

## SYLLABUS IN PHARMACOLOGY.

The course in Pharmacology consists of lectures, demonstrations in experimental pharmacology and practical pharmacy, the aim being to impart a general knowledge of the mode of action of drugs treated from an experimental point of view.

The lectures are devoted chiefly to the discussion of the effect of drugs and poisons on the tissues of man and animals and how these effects may be utilised to relieve or cure disease. The total number of lectures should not be less than 35. The general scheme of the lectures is as follows:—

The mode of action of drugs treated from an experimental stand-point.

### *Pharmacology of the Central Nervous System:—*

Alcohol; General anaesthetics; Hypnotics of the methane series; Bromides; Opium and Cannabis indica.

The Caffeine group: Camphor; strychnine.

Peripheral Nervous action.—Curare group; nicotine group; Belladonna group; pilocarpine group. Aconite and Veratrine.

Local Anaesthetics:—Cocaine and its substitutes; Hydrocyanic acid.

### *Pharmacology of the Genito-urinary system.—*

Diuretics and urinary antiseptics.

Ergot; Hydrastis;

### *Gland Secretions.—*

Adrenalin; Pituitary extract; Thyroid extract; Parathyroids and Insulin.

### *Pharmacology of the Circulation.—*

Digitalis group.

### *Pharmacology of the Vessels.—*

Vaso-constrictors and Vaso-dilators.

### *Pharmacology of respiration.—*

Stimulants; Depressants; Anti-spasmodics; Expectorants; Saponins; Ipecacuanha; Respiratory disinfectants.

### *Pharmacology of the Alimentary Canal.—*

Bitters; Volatile oils; Purgatives; Astringents; Emetics, Anthelminitics.

### *Pharmacology of Temperature regulation.—*

Anti-pyretics; Salicylates.

*Drugs acting on the excretion of Uric Acid.—*

Colchicum; Atophan.

*Skin irritants and Counter-irritation.*

*Antiseptics and disinfectants.*

*Drugs acting on metabolism.—*

Phosphorus.

*Specific Therapy.—*

Cinchona alkaloids; Mercury; Arsenic; Bismuth; and Anti  
mony.

*Ion-action and Salt action.*

*Certain Positive ions.*

Hydrates and Carbonates of the Alkalies. Soap.

*Certain Negative ions. Acids.*

*General action of heavy metals.—*

Iron; Silver; Zinc; Copper; Lead; Aluminium; Manganese;  
Chromium; Gold. Radio-active metals.

Ferments. Sweetening agents; Demulcents and Emollients.

Vitamines.

*Prescription writing; Incompatibility Synergism; Antagonism.*

The physical and chemical properties of the drugs are considered only in so far as they concern their action and the methods of administration. A selection of the more important pharmaceutical preparations is also considered.

*Demonstrations in Experimental Pharmacology* are used to illustrate the lectures as far as practicable, and for this purpose the class is divided into sections so that each student may see some of the effects of drugs actually occurring. The total number of demonstrations to each batch should not be less than 25.

*Instruction in Practical Pharmacy* is given in batches, the total number of meetings for each batch, to be not less than 20. In the practical class the student is instructed to prescribe some of the more important drugs dealt with in the lectures, and to dispense his prescriptions.

## MENTAL DISEASES.

The course of Mental Diseases shall comprise instruction in the following types of Disorder:—

(i) Failure of Mental Development—

Idiocy; Imbecility; Weak-mindedness.

(ii) Mania-Depressive Insanity—

Mania; Melancholia; Stupor; Alternating and Circular conditions.

- (iii) Delusional Insanity and Paranoia.
- (iv) Dementia—  
Primary or Adolescent (D. Præcox); Consecutive or Termin; Organic; Para-Syphilitic (G.P.I.); Senile.
- (v) Insanity due to drugs—  
Alcohol; Indian Hemp; Opium and its derivatives; Cocaine; Lead.
- (vi) Epileptic Insanity.
- (vii) Hysteria and Psychasthenia.
- (viii) Exhaustion Psychoses—  
Post Febrile Insanity; Acute Delirium; Neurasthenia.
- (ix) Epochal Insanities—  
Insanity of Puberty and Adolescence; Insanity of the child bearing period; Insanity of Climacteric; Insanity of old age.
- (x) Mental Disorder, associated with Physical diseases—  
Diseases of the Thyroid Gland; Polioencephalitis; Syphilis; Tubercle, Nephritis, Diabetes and Gout.
- (xi) The Medico-Legal and Social relationships of Insanity.
- (xii) General Treatment.

## APPENDIX VIII

### B. S. Sc. DEGREE EXAMINATION

#### ENTOMOLOGY AND PARASITOLOGY

*Entomology.*—The Structure and Life-history of insects with special reference to the Diptera.

The structure, life-history, habits, classification and relation to disease of:—

- (i) The Blood sucking Nematocera and Brachycera, especially, Culicoides, Phlebotomus, Simulium, Culex, Anopheles, Stegomyia, the Leptidae and Tabanidae.
- (ii) The Muscidae, Acalypterae, and Calypterae, especially, Musca, Stomoxys, Glossina, Hippobosca, and their allies, Sacophaga.
- (iii) The House fly and other diptera which frequent human dwellings.
- (iv) The myasis producing flies of man and animals.
- (v) Siphonaptera, Rhyncota, Siphunculina, and Mallophaga.
- (vi) Spiders, ticks and mites.

The poison apparatus of snakes and other venomous animals.

#### ENTOMOLOGICAL SURVEYS AND INSECT CONTROL

*Protozoology.*—An introduction to the Protozoa, Sacrodina, Ciliata, Flagellata, Sporozoa; their relation to disease. Malaria surveys.

*Helminthology.*—The structure, life-history and classification of Nematodes, Cestodes, Trematodes and Hirudinea, The control of helminth infection.

The course shall consist of lectures and practical work in the laboratory and in the field on the collection and preservation of insects, worms and protozoa; detailed study of the more important insects, and worms by means of dissections and other preparations; the breeding of mosquitoes, flies and other insects; entomological surveys and the identification of insects; the detection and identification of the commoner parasites and ova in the blood, urine, faeces of man and animals; demonstrations of macroscopic and microscopic preparations.

#### BACTERIOLOGY

The course of lectures shall include the classification, characters and life-history of the pathogenic and the commoner non-pathogenic microbes, fungi and yeasts, more especially those concerned with the causation and spread of endemic and epidemic

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diseases and of disease of animals transmissible to man; the bacteriology of air, water, soil, and food; disinfectants, their standardisation and use; immunology and serology and bacterial vaccines and their use in the diagnosis, prevention, and treatment of infectious disease as well as in the identification and classification of bacteria.

The course of laboratory work shall comprise practical training in general laboratory technique, sterilisation, preparation of media, the study in detail of the commoner microbes by aerobic and anaerobic and other methods, the separation of pure cultures and identification, general and special microscopical and cultural methods used in the bacteriological examination of air, water, soil, sewage and sewage effluents, foods, special attention being paid to the routine methods employed in the diagnosis and prevention of disease, the standardisation of disinfectants and estimating the comparative value of disinfectant processes by their lethal action on microbes, the preparation of bacterial vaccines, the application of serological tests.

Demonstrations of special methods and processes and tests which cannot be conveniently carried out by the class shall be given from time to time.

### CLIMATOLOGY AND METEOROLOGY

The elements of climatology as applied to Public Health. Air pressure and its influence on health; barometers, corrections for barometers. Temperature, thermometers and their uses, methods of making observations, maximum and minimum thermometers, solar and terrestrial radiation thermometers, soil thermometer, thermographs, the influence of temperature on health and ventilation. Humidity, hygrometers, direct and indirect, determination of humidity, the influence of humidity on health and ventilation. Rainfall, rain gauges, the influence of the configuration of a region on the rainfall, the influence of rainfall on health. Winds, estimation of direction and velocity and pressure, determination of the direction and strength of air currents, prevailing winds, monsoons, cyclone and anticyclone systems, weather charts and weather forecasts. Atmospheric electricity, thunderstorms.

Special consideration of the meteorological conditions prevailing in the Presidency and in India generally, and their influence on the prevalence and spread of certain epidemic and infectious diseases.

### PHYSICS AND CHEMISTRY IN RELATION TO PUBLIC HEALTH

The General principles of Physics as applied in Public Health in heating, cooling, lighting, ventilation, drainage, and filtration. The general principles of Inorganic, Organic, and Physical Chemistry in relation to the methods and processes in common use in Public Health.

The character and composition of air, water, soil, sewage, their impurities and the methods of detection.

The character, composition and adulteration of the more commonly used foods, condiments and beverages.

The characters and composition of the important disinfectants and antiseptics, their modes of action and standardisation. Methods of analysis commonly used in Public Health work, interpretation of results in the framing of opinions and reports.

Laboratory work as shown below:

*Water.*—Sampling, physical examination, qualitative tests, quantitative determination of the total solid residue, dissolved gases, carbonates, chlorides, sulphates, Nitrites, Nitrates, Organic matter in terms of "Albuminoid Ammonia", organic Carbon and Nitrogen and as Oxygen absorbed, Ammonia, Phosphates, Lime, Magnesia, Hardness, Poisonous metals. Microscopic examination of the deposit.

*Sewage.*—Chemical and Physical examination of sewage and effluents after treatment.

*Air.*—Quantitative estimation of Carbon dioxide, detection of Sulphuretted hydrogen, Nitrous acid and Nitric acid.

*Soil.*—Determination of size of grain, determination of sand and clay, determination of water capacity, porosity and permeability, determination of Ammonia and Organic Nitrogen in the soil, and of Carbonic acid in the ground air.

*Food.*—Qualitative and quantitative chemical examination of milk, condensed and preserved milk powders, curds, butter-milk, butter, ghee and other animal fats, edible vegetable oils, cheese, confections and honey preserves, wheat flour and other cereal flours, bread, starch, tea, coffee, cocoa, vinegar, lime-juice, aerated waters, alcoholic drinks, tinned and preserved foods, the detection and estimation of the common adulterants in the above. Detection and estimation of antiseptics, preservatives, colouring matters, poisonous and deleterious substances in food.

*Disinfectants.*—The chemical examination of the more important disinfectants, more especially the estimation of Chlorine in Bleaching powder and chlorine solutions, formaldehyde, phenol, Demonstrations of special methods and processes and tests which cannot be conveniently performed by the class will be given from time to time.

#### THE PRINCIPLES AND PRACTICE OF PUBLIC HEALTH

The Administration of Public Health, the practice in India and more particularly in the Presidency compared with that in England and Scotland, the United States, and European Countries. The Local Self-Government Department, and the Minister of Health. The Director of Public Health and his staff. The Public Health Commissioner and the Surgeon-General in their



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relations with the Public Health Department. The Local Authorities, District Boards, Taluk Boards, Union Boards. The Municipalities. The Health Officer, District and Municipal and the City of Madras. The Collector, the Village Munsiff. The Village Panchayat and the Village. The Health Staff in Municipalities and Rural Areas. Other Bodies, Organisations and Officials with whom the Health Officer may have dealings. The law in relation to Public Health. The English Public Health Acts and the Rules and Regulations framed thereunder. The laws in force in the Presidency together with the Rules and Regulations made under these, Government Orders, Departmental and other Memoranda and Codes.

*Note.*—Detailed instruction in Sanitary Laws and Administration as outlined above, the practical application of these Laws and the discussion of problems arising in the administration of Public Health in the Presidency, will be given in a series of Special Lectures by an Assistant Director of Public Health.

*Water.*—The properties of water, the quantity and supply of water, sources of water-supply, storage and delivery, impurities, the chemical examination of water, the bacteriological examination of water, the interpretation of the results of a water analysis, the law relating to water-supply.

*Air and Ventilation.*—The composition and physical properties of air, impurities in air, diseases produced by impurities in air, examination of air quantity of air required for ventilation, systems of ventilation, heating and cooling, examination of the sufficiency of ventilation.

*Soils, Sites and Habitations.*—Geological origin of soils, soil features, which influence health, conformation, exposure, vegetation, irrigation, temperature, micro-organisms, organic matter, ground air, ground water, dampness, soil pollution, examination and comparison of soils, soil in relation to special diseases; Sites and habitations, design and construction, housing problems; Civic surveys and town planning; Schools, hospitals, other public buildings, markets, slaughter-houses, cowsheds, bakeries, grain stores; Hotels, hostels, tenement and lodging houses, labourers' dwellings, construction camps, temporary dwellings such as pilgrim camps, evacuation camps, inspection of sites and dwellings and other buildings.

*Conservancy and Sewage.*—Collection, removal, and disposal of town and house refuse, conservancy systems, latrines, urinals, collection, removal, and disposal of night soil, appliances, conservancy depots, collection, removal and disposal of sullage, the removal of sewage by water carriage, appliances and fittings, drains and sewers, ventilation, inspection and maintenance, disposal of sewage, purification of sewage, examination of sewage,

disposal of trade, effluents after treatment, the law relating to conservancy and sewage.

*Note.*—Detailed instruction in (1) water supply and distribution, (ii) Air supply, ventilation, cooling and heating, (iii) sites, environment, construction of buildings, and sanitary fittings, (iv) the collection, treatment, and disposal of sewage and other refuse, (v) Nature, strength and fitness of structural materials employed in sanitary works, (vi) Design of municipal, domestic, and other special sanitary works, (vii) mensuration and drawing in relation to elementary building construction and the construction and use of scales and plotting of land surveys and sections, will be given by the Lecturer, Sanitary Engineering, in a special course of lectures.

*Food.*—Classification of foodstuffs, nutritive functions and nutritive value of foodstuffs, quantity of food required, dietaries and their construction, diseases connected with food. Meat, fish, eggs, milk, butter, and other animal and vegetable fats, grains and cereals, vegetables and fruit, sugar, bread, cheese, concentrated, prepared and preserved foods, the inspection and examination of foods and foodstuffs, beverages and condiments, the law relating to foods and the prevention of adulteration.

*Industrial Hygiene.*—Offensive and dangerous trades and the result in nuisances and methods of control, industries and factories, industrial areas and factory sites, smoke and dust nuisance, industrial poisoning, disabilities and diseases due to industries and trades, the law relating to factories and dangerous and offensive trades.

*Epidemiology and Infectious Diseases.*—The nature and origin of infectious diseases, immunity and protection, causes and modes of spread of epidemics and epizootics, contagious diseases and diseases arising from insanitary conditions, the study of the more common infectious and epidemic diseases, e.g., cholera, small-pox, plague, relapsing fever, typhus fever, beri-beri, chicken-pox, diarrhoea and dysentery, enteric fevers, hydrophobia, influenza, kala-azar, leprosy, malaria, Malta fever, measles, cerebro-spinal fever, dengue, pneumonia, tuberculosis, tetanus, yellow fever, and certain diseases of animals which may be transmissible to men, e.g., anthrax, foot and mouth disease, glanders, rabies, trypanosome infections; puerperal pyæmia. The prevention of infectious disease. The law in relation to infectious disease.

*Note.*—A special course of lectures on the natural history of the common epidemic diseases of India and more especially of South India, and on the practical applications of the above principles to the control of infectious diseases in the Presidency, will be delivered by an Assistant Director of Public Health. Another

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course of lectures on the diseases of animals, etc., will be delivered by a Veterinary Officer.

*Medical Inspection of School Children and School Hygiene.*—The principles and methods employed, control of epidemic diseases in schools, school buildings, class rooms, seats and desks, common rooms, staircases, tiffin rooms, hostels, playgrounds, ventilation, and lighting, heating and cooling, water-supply, and sanitary conveniences, sites and locations.

*Note.*—Practical demonstrations of the above principles will be given by the Medical Officer of Health during his course of outdoor training.

*Maternity and Child Welfare.*—Infant mortality and maternal mortality, causes, and influences, maternity and child welfare schemes, child welfare centres, health visitors and midwifery services.

*Note.*—A special course of lectures on the conditions prevailing in the Presidency and the measures taken to meet them will be given by an Assistant Director of Public Health.

Demonstrations of the working of a maternity and child welfare schemes will be given by the Medical Officer of Health during his course of outdoor training.

*Vital Statistics.*—Population, census, estimates of population, registration of births, deaths, and marriages, calculation and correction of rates, causes of death, mortality and mobility rates, influence of race, age, sex, migration, occupation, housing season, climate, social and hygienic conditions, diseases on the above. Life tables, the collection and interpretation of statistical data, determination of the value of statistical data, statistical methods, frequency curves, correlation, contingency, probability.

*Note.*—A special course of lectures on the above principles will be delivered by an Assistant Director of Public Health.

*Practical Sanitation.*—Public Health surveys, village sanitation, sanitation of camps, improvised methods, management of fairs, and festivals, personal hygiene, the disposal of the dead. Disinfection by heat and chemicals, disinfecting stations, disinfection, the law relating to disinfection and burial.

*Note.*—A special course of lectures on the management of fairs and festivals in the Presidency will be delivered by the Assistant Director of Public Health.

*Vaccination.*—Shall consist of a course of special lectures, demonstrations, and practical work in the preparation, standardisation and testing of vaccine lymph, vaccination and verification of results, the law and procedure in the Presidency, vaccination returns and statistics. Small-pox in the Presidency and its control.

*Tuberculosis.*—Shall consist of a special course of lectures on the practical aspects of tuberculosis, dealing with its etiology, pathology, diagnosis, prophylaxis and treatment, especially directed to its clinical and preventive sides, the control of tuberculosis, tuberculosis institutions, administration and demonstrations, to be given by the Superintendent of the King Edward Memorial Tuberculosis Institute.

*Venereal Diseases.*—Shall consist of a special course of lectures and demonstrations on the practical aspects of the prevention of venereal disease, to be delivered by the Medical Officer in charge of the Venereal Wards of the General Hospital.

*Town Planning.*—Shall consist of a course of special lectures on town planning to be delivered by the Director of Town Planning.

*Infectious Diseases.*—Shall consist of a course of lectures cliniques, and demonstrations at the Hospitals for Infectious diseases, Madras, on the diagnosis and management of infectious diseases, and the administration of infectious diseases hospitals, to be delivered by the Superintendent of the Hospitals.

*Instruction in Public Health Administration.*—Will be given by the Medical Officer of Health of the City of Madras during the Spring and Vacation terms as provided for in the regulations above. It will include instructions on the relationship of the Health Officer with the local Authority and with the General Medical Practitioner, the operation of the various acts in every day practice, the routine practice of conservancy, sanitation, control of infectious diseases, inspection of foods, and dangerous and offensive trades, inspection of plans, sites, buildings, schools, insanitary areas, and all the other duties that a Health Officer may be expected to perform.

## APPENDIX IX.

### EXAMINATIONS IN LAW

**Note 1.**—No special text-books in the case of Acts of the Indian Legislature are prescribed, but students will be expected to have a mastery of the matter which is usually contained in the best commentaries as well as a knowledge of the bare text of the Act.

2. Text-books have been prescribed where necessary with a view to indicating the general scope of each subject, but questions will not be confined to the books prescribed.

### FIRST EXAMINATION IN LAW

1. *Jurisprudence*—

Austin's Jurisprudence, Vol I, omitting Lectures II, III and IV.

J. W. Salmond's Jurisprudence.

Maine's Ancient Law.

2. *Roman Law*—

J. B. Moyle's Institutes of Justinian (except Book III, Titles I to XII (inclusive) and (Excursus I and X, and the Latin Text throughout, but including the Author's English Translation).

3. and 4. *Contracts*—

Anson's Law of Contracts.

5. *Torts*—

Pollock on Torts.

6. *Indian Constitutional Law*—

Cowell's Courts and Legislative Authorities in India.

Ilbert's Government of India except Chapter III (the Digest of Statutory Enactments relating to the Government of India).

### B.L. DEGREE EXAMINATION

1. *The Law of Property with special reference to the Transfer of Property Act, the Indian Trusts Act, and the Indian Easements Acts*—

William's Principles of the Law of Real Property.

Underhill's Private Trusts and Trustees.

Peacock's Easements in British India.

**2. *Hindu Law*—**

**Mayne's Hindu Law and Usage.**

**3. *Muhammadian Law*—**

**Sir R. K. Wilson's Digest of Anglo-Muhammadian Law.**

**4. *Criminal Law***

**5. *The Law of Evidence*—**

**Will's Theory and Practice of the Law of Evidence**

**6. *Land Tenures in the Madras Presidency.***

**M.L. DEGREE EXAMINATION**

The following text-books are recommended for the guidance of candidates reading for the above examination, but it must be distinctly understood that questions will not necessarily be confined to the books specified.

**BRANCH I.—THE SCIENCE AND HISTORY OF LAW**

***Jurisprudence*—**

**Austin: Jurisprudence.**

**Maine: Ancient Law; Early History of Institutions: Early Law and Custom.**

**Baden Powell: Land Systems of British India: Indian Village Community.**

**Light wood: Nature of Positive Law (1883)—Macmillan.**

**Kant: Philosophy of Law (Translated by Hastie). (1887)—**

**T. and T. Clark, Edinburgh.**

**Savigny: System of the Modern Law.**

**Volume I—Modern Roman Law (Translated by Holloway), (1867)—Mr. J. Higginbotham, Madras.**

**Volume II—Junal Relations (Translated by Rattigan). (1884)—Messrs. Wildy & Sons, Lincoln's Inn, Arheway, W. C., London Holmes: Common Law.**

***Roman Law (General)*—**

**Muirhead: Historical Introduction to Roman Law.**

**Salkowskie: Institutes and History of Roman Law.**

**Poste: Institutes of Calus.**

**Mackenzie: Studies in Roman Law (latest edition, 1911, published by William Blackwood & Sons, Edinburgh and Madras).**

**Roman Law (The Digest)—**

Roby : Introduction to the Study of the Digest.

- |      |   |  |
|------|---|--|
|      | { Digest XLI (1) and (2)—                     |  |
|      | { De Acquirendo rerum Dominio.                |  |
| 1930 | { De Acquirenda Possessione. By Bryan Walker. |  |
|      | { Digest VII (1). De Usufructu. By Roby.      |  |
| 1931 | { Digest XIX (2). Locati Conducti. By Monroe. |  |
|      | { Digest XVII (1). Mandati. By Bryan Walker.  |  |

NOTE.—It is already notified that one of the two portions bracketed will be prescribed yearly in rotation with reference to text-books in Roman Law (Digest)—*vide* notification in the *Fort St. George Gazette*, dated 20th September 1920.

**Legislation—**

Bentham: Principles of Morals and Legislation.

Sidgwick: Elements of Politics.

Maxwell: On the Interpretation of Statutes.

**Public International Law—**

Hall: International Law.

Wheaton: International Law. Edited by Boyd.

Pitt Cobbett: Leading Cases and Opinions on International Law.

**Private International Law—**

Dicey: Conflict of Laws.

Bar: Private International Law.

Foote: Private International Law.

Nelson: Selected Cases in Private International Law.

**Constitutional Law and History—**

Stubbs: Constitutional History.

Hallam: Constitutional History.

Erskin-May: Constitutional History.

**Legal History—**

Anson: Law and Custom of the Constitution.

Dicey: Law of the Constitution.

Stephen: History of the Criminal Law of England.

**BRANCHES (ii) and (iii)**

It is not deemed necessary to recommend any particular text-book in these branches.

## BRANCH (iv)

*Customary and Statute Law relating to Land Tenure in India—***Maine: Ancient Law.****Maine: Early History of Institutions: Early Law and Custom, Village Communities in the East and the West.****Baden Powell: Indian Village Community; Land Systems of British India.****Field: Landlord and Tenant.****For other parts of this Branch it is not deemed necessary to recommend any particular text-book.**



## APPENDIX X

## (First Examination in Engineering)

## PURE MATHEMATICS.

*Algebra.*—Elementary properties of rational integral functions; elementary tests of convergence and divergence of series; binomial, exponential and logarithmic series; partial fractions; simple properties of equations; solution of equations by graphs; approximate solution of equations by Horner's method.

*Plane Trigonometry.*—Practical use of logarithms; solution of triangles; heights and distances; calculation of arcs; inverse notation; limits of  $\frac{\sin x}{x}$  and  $\frac{\tan x}{x}$  as  $x$  tends to zero; DeMoivre's theorem; use of the expansions of  $\sin x$  and  $\cos x$  in powers of  $x$ ; sum of the sines or cosines of a series of angles in arithmetic progression. Definition of hyperbolic functions.

*Co-ordinate Geometry.*—Simple properties of the straight line circle, parabola, ellipse and hyperbola (in Cartesian and polar co-ordinates) and easy problems thereon.

*Solid Geometry*—Elements.

*Mensuration.*—Plane and solid.

*Calculus.*—Elementary standard forms and fundamental processes of differentiation and integration; simple applications of the derivative to Geometry and mechanics; maxima and minima of functions of one variable; simple applications of integration to determination of areas, volumes, centre of mass, moment of inertia and centre of pressure.

## APPLIED MATHEMATICS.

*Statics.*—Composition and resolution of forces; moments; couples; conditions of equilibrium of forces in a plane; centre of mass; work friction; simple machines.

*Dynamics.*—Composition and resolution of velocities and accelerations; relative velocity; motion in a straight line with constant acceleration; Newton's laws of motion; principle of conservation of energy; projectiles; impact; motion in a circle; simple harmonic motion; simple and compound pendulums; moment of inertia.

*Hydrostatics.*—Transmission of fluid pressure; thrust of fluid on plane and curved surfaces; centre of pressure; bodies wholly or partly immersed; equilibrium of floating bodies; pressure of atmosphere; Boyle's Law; the common pump; air condenser; diving belt.

## Science

### CHEMISTRY.

1. Physical and chemical change. Constitution of matter. Simple and compound substances. Chemical action. Chemical nomenclature and symbols. The atomic theory. Equivalent, atomic and molecular weights. Specific and atomic heats. Calculation of weights and volumes of substances involved in chemical reactions. General properties of gases. Liquifaction. Diffusion. Solution. Dissociation. Electrolysis.

2. The chemistry of the following non-metallic elements and their more important compounds; hydrogen, oxygen, nitrogen, chlorine, bromine, iodine, fluorine, sulphur, phosphorus; arsenic, boron, carbon and silicon.

3. Chemical and physical characteristics of metals as illustrated by sodium, calcium, iron, zinc, lead, mercury, copper, silver and gold.

### PHYSICS.

#### *Heat*

Temperature. Expansion of solids, liquids and gases; calorimetry. Change of state. Latent heat; the laws of evaporation: boiling. Conduction, convection, radiation. The laws of cooling. Dynamical equivalent of heat. The laws of thermodynamics with simple applications.

#### *Light*

The propagation of light: photometry. The laws of reflection and refraction. The direct reflection and refraction of small pencils at plane and spherical surfaces: passage through a lens. The telescope and microscope. The compound nature of white light: the achromatic lens. Polarization.

#### *Electricity and Magnetism*

1. Magnets. The magnetic field. Forces and couples on magnets in the magnetic field. The earth's magnetic field. Magnetic induction; the magnetic properties of iron and steel; hysteresis.

2. Electrification, conductors, and insulators, the electrostatic field and electrostatic induction. Condensers.

3. Primary and secondary cells: Current galvanometers. Electromotive force. Ohm's law. The heating effects of currents; fuses and incandescent lamps. Elementary phenomena of electrolysis.

4. Potential energy of circuit carrying current, placed in magnetic field and derivation of forces and couples on circuit.

Application to moving coil instruments (ammeters, voltmeters, etc.).

5. Electromagnetic induction: Maxwell's law. Principles of simple dynamo machines: induction coil.

#### ELEMENTARY APPLIED MECHANICS.

1. Elementary statics, parallelogram, triangle, and polygon of forces. Easy applications to ordinary frames.

2. Stress and strain. Modulus of elasticity. Limit of elasticity. Ultimate strength. Factor of safety and working stress. Elementary application to riveted joints, thin cylinders.

3. Elementary study of beams: bending moment and shearing force. Sections in iron, steel, and wood.

4. Kinematics of simple machines. Velocity ratio. Mechanical advantage, efficiency.

5. Principle of work. Graphic representation. Simple applications to machines: Potential and kinetic energy.

#### DRAWING.

##### GEOMETRICAL DRAWING

(a) *Practical Plane Geometry*.—Elementary problems dealing with lines, triangles, quadrilaterals, circles, polygons. Methods of construction and problems relating thereto. Tangents. Inscribed and described figures. Proportional lines and angles. Areas of plane figures. Plane curves: parabola, ellipse and hyperbola; methods of drawing and chief properties. Cycloidal, spiral, and other common curves. Loci.

(b) *Practical Solid Geometry and Projection*.—Lines, points and planes. Projection of simple solids. Regular solids. Sections of solids. Development of plane and curved surfaces. Tangent planes. Interpenetration of solids. Determination of shadows. Isometric projection. Elements of perspective.

(c) *Graphics*.—Arithmetic. Plotting of curves from given data.

##### MACHINE DRAWING

Ability to copy accurately to scale and supply additional views. Drawings of simple machine parts from sketches. Some knowledge of the proportions of the more simple machine details such as bolts, nuts, cotters, keys, etc.

##### BUILDING DRAWING

Ability to copy accurately to scale and to make drawings from sketches.

*Masonry Details.*—Bond in brickwork. Gauged, relieving and inverted arches; footings and ordinary foundations, uncoursed and coursed rubble, ashlar, etc. Dressings, such as window sills, window and door jambs, etc.

*Timber Details.*—Joints: halving, lapping, notching, etc., also as applied to wall plates, floors, ceilings, etc. Floors. Doors. Windows. Partitions. Roof frames.

*Iron and Steel Details.*—Sections of cast and rolled beams and simple applications; simple iron frames.

### ELEMENTARY PRACTICAL SURVEYING.

Surveying with chain compass and plane table. The level and its adjustments. Levelling and contouring.

## Bachelor of Engineering (Civil Branch)

### PURE AND APPLIED MATHEMATICS.

#### *Pure Mathematics.*

*Calculus.*—Differentiation; change of variable; approximations and small errors; theorem of mean value; evaluation of indeterminate forms; curvature evolute, involute; tracing of well known curves from their cartesian, and polar equations; partial differentiation; envelopes; Taylor's and Maclaurins series.

Integration of standard forms; integration by substitution; integration by parts; simple formulæ of reduction; integral as the limit of a sum; areas; and lengths of plane curves; volumes and surfaces of solids of revolution; double and triple integrals as applied to centre of mass, moment of inertia and centre of pressure; differential equations of the first order and first degree; linear differential equations with constant co-efficients.

#### *Applied Mathematics.*

More advanced treatment, with calculus, of subjects included in the syllabus for the first examination in Engineering, and in addition an elementary treatment of the following:—

*Statics.*—Virtual work; stable and unstable equilibrium; the common catenary; the parabola of suspension on bridges; light string on a rough curve.

*Dynamics.*—Displacement of a rigid body in a plane; translation and rotation; instantaneous centre.

Motion of a particle in a straight line with variable acceleration; motion in a plane curve; moment of inertia, momental ellipse, principal axes of inertia; equations of motion of a rigid

body in a plane; kinetic energy of a rigid body moving in a plane; motion of a rigid body about a fixed axis; pressure on the axis.

*Hydrostatics.*—Stability of floating bodies; meta-centre.

### APPLIED MECHANICS.

1. *Stress, Strain and the Mechanical Properties of Materials used in Engineering*—

(a) Modulus of elasticity: elastic limit, ultimate strength, resilience; strain beyond the elastic limit; fatigue of metals. Complex stress. Applications of the theory of stress and strain.

(b) Mechanical properties of the materials of construction.

(c) Testing of materials.

2. *Applications of Statics to Structures*—

(a) Definition of a structure: simple and compound structures; perfect, imperfect and redundant frames.

(b) Principles of graphic statics: applications to roofs, bridges and similar structures.

(c) Beams: bending moment and shearing force: load diagrams: deflection: stiffness: the continuous beam.

(d) Strength of struts and columns.

(e) The arch rib and hanging chains.

(f) Theory of torsion: strength of shafting and other practical applications.

(g) Shells and thick cylinders.

3. *Hydromechanics*—

(a) Floating bodies: stability of floating vessels.

(b) Flow of air in passages and orifices.

(c) General principles applicable to designs of dams, gates, etc.

1. *Building Materials*—

*Stones of South India*—Characteristics and preparation. *Bricks and Tiles*.—Manufacture and uses.

*Lime, Cement, Sand, Mortar, Concrete and Plaster*.—Sources of supply, preparation and working.

*Timber*.—Varieties used for building purposes: seasoning, preservation.

*Metals*—Iron and steel: elementary description of metallurgical processes for production: varieties and suitability for use. Other common metals, such as copper, zinc, lead, tin and their alloys.

2. *Theory and Design of Structures in*—Wood, iron, steel,

masonry and earth—

(a) Masonry Structures.—Foundations: buildings: bridges: retaining walls: tunnels.

(b) Structures in Iron and Steel.—Roofs: bridges: gates and shutters. Methods of preservation.

(c) Reinforced concrete structures.

3. *General Principles governing the Design of*—Railways, roads, harbours and other works.

#### HYDRAULIC ENGINEERING.

1. *Hydrostatics*.—Physical properties of water, and general theorems relating to pressure on surfaces and to floating bodies.

2. *Motion of Water*.—Stream line motion, Bernoulli's theorem. Simple flow in passage of varying dimensions. Fluid friction.

3. *Orifices and Notches*.—Flow from small orifices. Mouth-pieces and large openings. Notches, weirs and anicuts. Submerged weirs and sluices. Bridge openings.

4. *Flow in pipes*.—Co-efficients, mean velocity and discharge. Losses of head along pipe lines, at bends, valves, etc. Branch mains, syphons and nozzles.

5. *Flow in Channels*.—Variation of velocity over cross section. Co-efficients, mean velocity and discharge. Limiting velocities. Sections of channels. Falls.

6. *Rivers*.—Estimation of discharge. Gauging. Discharge from catchment basins.

7. *Storage and Distribution*.—Rainfall. Supply from wells, rivers and reservoirs, for irrigation, navigation and town consumption.

8. *Irrigation works*.—Masonry works in general: description and methods of construction.

9. *Canals and Channels*.—Irrigation canals in deltaic and non-deltaic country. Supply from rivers and tanks. Capacity of canal. Limiting velocities. Alignment. Disposal of cross drainage. Height of banks. Navigable canals.

10. *Tanks*.—Isolated rain-fed tanks. Tanks in groups. Tanks supplied by rivers or streams. Capacity. Irrigating duty. Loss of water by evaporation and absorption. Construction of earthen bunds. Design and construction of surplus weirs. Tank sluices and their regulation. Repairs to bunds, and closing breaches.

11. *Water-supply of towns*.—General principles governing the design of works for water-supply and distribution in towns, including filtration, pumping, regulation and waste detection,

12. *Town Drainage and Sewage Disposal*.—General principles governing the design of works for sewage of towns and sewage disposal, including pumping stations, laying of sewers, flushing arrangements and treatment by bacteriological, chemical and other processes.

13. *Mechanical Appliances*.—General description and methods of working of water-wheels, turbines, water lifts and pumps.

#### SURVEYING.

1. Ordinary surveying with chain, compass and plane table.
2. Levels: adjustment and manipulation. Contouring.
3. Theodolites and other surveying instruments: adjustment and manipulation. Traversing, tachemetry, triangulation, and problems in engineering geodesy and astronomy.
4. General operations of setting out and measuring engineering works.

#### BUILDING, DRAWING AND ESTIMATING.

The papers under these heads will be based on the foregoing syllabuses.

### Bachelor of Engineering (Mechanical Branch)

#### MATHEMATICS.

As for Civil Branch.

#### APPLIED MECHANICS.

As for Civil Branch.

#### MECHANICAL ENGINEERING.

##### 1. *Kinematics and Pure Mechanism*.—

(a) Definition of a machine. Machine elements and pairs. Link chains and mechanisms.

(b) Constrained motion. Translation and rotation, instantaneous centres and centrodes.

(c) Virtual motion in mechanism. Velocity and acceleration diagrams.

(d) Altered mechanisms. Expansion of elements. Reduction of chains.

(e) Higher pairing involving plane motion. Spur wheel trains, cam trains etc.

(f) Mechanisms containing non-rigid links. Belt gearing, chain and rope gearing, etc.

(g) Ordinary chains involving screw and spheric motion: worm gearing, universal joint, etc.

*Applications of Statics and Kinetics—*

(a) Friction of rest and motion. Friction of lubricated surfaces. Friction in mechanism and efficiency of machines.

(b) Intertia forces in mechanism: balancing: gyrostatic action.

(c) Effort and resistance: steadiness: crank effort: governors and fly-wheels.

*General Machine Design—*

Fastenings, bolts, nuts, keys and cotters; riveted joints and connexions generally; pipes and cylinders; shafting and journals; pedestals, wall fixings, etc.; belt and rope gearing; friction and spur gearing.

*2. Fuel, Gas Plants and Boilers—*

(a) Fuel—Coal, wood, petroleum, gas; petrol, alcohol, etc., physical characteristics: approximate chemical composition; heat of combustion.

(b) Gas Plants.—Gas producers, pressure and suction plants: arrangement and working.

(c) Boilers.—Draught: natural, forced, and induced. Ordinary forms of stationary, locomotive, marine, water-tube, and other types: heating surface, fire-grate area: boiler efficiency: superheaters: feed water heaters: accessories and management.

*3. Theory of Heat Engines—*

(a) Thermodynamical principles: Carnot's cycle: perfect heat engine: second law.

(b) Air Engines.—Stirling and other forms.

(c) Internal Combustion Engines.—Gas, oil and petrol engines: engines with fluid pistons: types and working: features of cycles. Proportioning of mixtures: efficiencies.

(d) Steam.—Thermodynamics of the generation, expansion, and condensation of steam: heat diagrams, etc.

(e) Steam Engines and turbines: with special reference to modern developments.

(f) Refrigerating Plant.—Theory and general arrangement of the more common types.

(g) Air Compressors.—Theory of pneumatic working.

*Generating Plants, Accessories and Details—*

(a) General arrangement and construction of the more important types.



(b) Condensers, air pumps, circulating pumps, cooling tanks, etc.

(c) Carburettors, and systems of ignition.

(d) Cylinders, pistons, cross heads, guides, connecting rods, cranks, governors, fly-wheels, valves and valve gears, glands and pipes.

(e) Engine Testing.—Consumption of steam and fuel, gas and oil; brakes and dynamometers, indicators: and indicator diagrams.

#### 4. *Hydraulic Machinery*—

(a) Pumps.—Bucket and plunger: piston forms, valves: air vessels, and stand pipes; efficiency of pumps. Methods of lifting water by animal power.

(b) Water wheels.—Theory, design and efficiency: under-shot, overshot, breast and other forms.

(c) Turbines.—Theory, design and efficiency: parallel, outward, and inward flow. Governing.

(d) Centrifugal pumps: chief types of simple and series pumps.

(e) Miscellaneous.—The pulsometer; hydraulic rams; air lift pumps; gas pump, etc.

(f) Hydraulic transmission of power.—Accumulators, valves and mains, cranes, lifts, etc.

#### 5. *Workshop Practice and Machine Tools*—

(a) Metals.—Iron and steel: elementary description of metallurgical processes for production: varieties and suitability for use. Other common metals, such as copper, zinc, lead, tin, and their alloys.

(b) Cutting of metals: tools steel: shape and preparation of tools: lubrication of tools: speed of cutting and power required.

(c) Surface plates: callipers, and gauges.

(d) Lathes: turret, repetition, and other lathes adapted for special purposes: screw cutting: tools and chucks.

(e) Machine tools; general principles of construction of chief forms.

(f) Methods of driving and general arrangement of machinery.

### ELECTRICAL ENGINEERING

1. *Fundamental Laws, Units and Standards*.—C. G. S. and electromagnetic units of current, potential, resistance and quantity, and their relation to practical electric units. Standards of current, electro-motive force, and resistance. Standard cells,

2. *Electrical Measuring Instruments.*—Moving magnet, systems. Moving coil systems. Methods of damping. Galvanometers. Measurement of current, electro-motive force, resistance, capacity, and co-efficients of induction. Recording instruments, electric meters. Measurements of alternating current and power. Oscillographs.

3. *Magnetic Properties of Materials.*—Magnetic force and magnetic induction. Behaviour of iron and steel under the application of magnetic force. Hysteresis and its effects. Dissipation of energy by hysteresis. Experimental determination of magnetization curve and hysteresis loop.

4. *Secondary Batteries.*—Lead secondary cells. Physical and chemical changes during charge and discharge. Types of battery plates. Relation connecting capacity with rate of discharge. Maintenance and uses of cells.

5. *Continuous Current Machinery.*—Principles of the generator. Field system and armature. Characteristics. Armature reactions. Commutation. Regulation. Armature windings. Details of construction. Motors. Starting, reversing, and regulating appliances. Methods of testing generators and motors. Switchboards. Auxiliary machines. General arrangement of plant and installations.

6. *Alternating Current Machinery.*—Production and nature of an alternating current. Maximum and R.M.S. value of wave forms. Effect of resistance, inductance, and capacity in circuit. Power and power factor. Choke coils. Transformers. Alternators and motors. Polyphase circuits.

7. *Electric Light and Power Distribution.*—Filament lamps and vapour lamps. Interior and exterior illumination. Mechanical and electrical properties of conductors and insulating materials. Cables. Systems of electric supply and distribution. Wiring of buildings for lighting and power. Fittings and switches. Testing of circuits. Faults. General principles of electric traction.

#### MACHINE DRAWING.

The papers under this head will be based on the foregoing Syllabuses.

## APPENDIX XI.

### EXAMINATIONS FOR TITLES IN ORIENTAL LEARNING

#### SANSKRIT.

#### Courses of Study,

1930, 1931, 1932 and 1933.

*Compulsory Division—Sīrōmani (Regulation 6, Chapter XLI)*

#### GENERAL PART

#### *Preliminary Examination (6-ii)—*

##### (a) Books prescribed—

- |   |   |                                    |
|---|---|------------------------------------|
| <ol style="list-style-type: none"> <li>1. Viśvanāthapañcānana—Muktāvali<br/>with Sabdakhaṇḍa-dīnakari</li> <li>2. Mīmāṃsānyāyaprakāśa—Apōdēva</li> <li>3. Siddhāntakaumudī—Purvārdhā<br/>only, omitting Taddhita</li> <li>4. Jaiminīya-nyāya-mālāvistara—from the beginning of the<br/>work to the end of pāda I in Chap: III.</li> </ol> | } | (Nirnaya Sagara Press,<br>Bombay). |
|---|---|------------------------------------|

##### (b) Books prescribed—

1. Rg Veda—Vedic Reader, I to X hymns (both inclusive), text  
only by A. A. Macdonnell (Oxford University Press).
2. Kathōpaniṣad—text only (Anandasrama Series, Poona).
3. Gautamadharmasūtras—the first prasthā-text only (Bibli-  
otheca Sanskrita, Government Press, Mysore) or (Ānan-  
dasrama Press, Poona).
4. Manu-smṛti—Chapter 9—text only (Gopal Narayan & Co.,  
Bombay).

*N.B.*—In connection with the History of Sanskrit Language and Literature, for the Final Examination, under the General part, the attention of teachers is invited to the list of books recommended for study and consultation under the corresponding subjects, for Branch vi—B.A. (Honours) Degree Examination.

#### SPECIAL PART

*Regulation 6-iii, Chapter XLI*

BRANCH I—*Mīmāṃsā Group.*

#### *Preliminary Examination.—*

##### Books prescribed—

- |   |   |                                |
|---|---|--------------------------------|
| <ol style="list-style-type: none"> <li>1. Taittirīya Samhitā with Sāyaṇa's Bhāṣya<br/>(Kāṇḍa I, Prapāṭhaka I).</li> <li>2. Āltarēya Brāhmaṇa with Sāyaṇa's<br/>Bhāṣya, the fourth Pañcikā.</li> <li>3. Āpastamba's Śrauta-sūtras with Rudra-<br/>datta's Vṛtti—Prasna's I to V, both in-<br/>clusive.</li> <li>4. Vājñavalkya-smṛti with Mitakasara<br/>(whole).</li> </ol> | } | Anandasarma<br>Series, Poona.) |
|---|---|--------------------------------|

5. Bhāṭṭa-dīpikā—Purvaṣaṭka only (Bibliotheca Sanskrita, Mysore Government Press or Bibliotheca Indica, Calcutta).

**Final Examination—**

Books prescribed—

- |   |                                     |
|---|-------------------------------------|
| 1. Bhāṭṭa-dīpikā—Uttaraṣaṭka only.  | } (Chowkhamba Book Depot, Benares.) |
| 2. Sabara-bhāṣya, Chapter I—with Kumāṛila's Vārtika, Chapter I—omitting Śloka-Vārtika |                                     |
| 3. Pārthasārathimīśra's Nyayaratnamālā  |                                     |
| 4. Bhāṭṭarāhasya—whole (Sudarsana Press, Conjeeveram).                                |                                     |

**BRANCH II—Vēdānta**

**Advaita—Preliminary Examination—**

Books prescribed—

Brahmasūtras with Śankara's Bhāṣyā (Sri Vani Vilas Press, Srirangam).

Bhāmati—Catuṣṣūtri (Nirnaya Sagara Press, Bombay):

Pañcapādika with Vivaraṇa—the first Varṇaka only (Vizianagaram Sanskrit Series, Benares).

Bṛhadāranyakōpaniṣad with Śankara's Bhāṣya—	} (Sri Vani Vilas Press, Srirangam).
Chapters I to III	
Chāndōgyōpaniṣad with Śankara's Bhāṣya—	
Adhyaya VI only	
Māndūkyaōpaniṣad with Gauḍapāda's Karikās and Sankara Bhāṣya.	
Bhagavadgītā with Sankara's Bhāṣya.	

**Advaita—Final Examination—**

(a) Books prescribed—

Siddhānta-Bindu (the whole)—text only	} (Advaitamanjari Series, Srividya Press, Kumbakonam).
Advaita-siddhi :	
Pariccheda I :—	
(i) From the beginning of the work up to the end of Āgamabādhōddhāra,	
(ii) Ajñānavāda, (iii) Anirvacanīyatavavāda and	
Priccheda II :—Akhaṇḍārthavāda.	
Laghucandrika from the beginning of the work up to the end of Upādhi and Akhaṇḍārtha-vāda section.	

(b) Books prescribed—

Paṭaṅjali's Yōga sūtras with Bhōja-vṛtti.	} (Chowkhamba Book Depot, Benares.)
Īśvarakṛṣṇa Sāṅkhyā karikās with Gauḍapāda's Commentary.	
Advaita-Paribhāṣā by Dharmarajadhvarin (Venkatesvar Press, Bombay).	
Yatīndramatadīpikā by Śrīnivāsācārya (Anandasrama Press, Poona).	

Daṣaparakaranas by Madhvācārya—omitting Karmanirṇaya and Viśnutattvanirṇaya—(text only) (Madhva Vilas Book Depôt, Kumbakonam).

*Viśiṣṭādvaita—Preliminary Examination*

Books prescribed—

Brahmasūtras with Śrī Bhāṣya (Ananda Press, Madras).

Śrutapraśaṅgikā—Jijñāsādhikaraṇa (Nirṇaya Sagara Press, Bombay).

Bhagavadgīta with Rāmānuja's Bhāṣya (Ananda Press, Madras)

Bṛhadāraṇyakōpaniṣad with Raṅgarāmānuja's Bhāṣya (Chakravarti Ayyangar's Telugu Edition, Mysore).

*Viśiṣṭādvaita—Final Examination*

(a) Books prescribed—

Vēdārthasamgraha (Pandit, Benares).

Siddhītraya, by Yamunācārya (Chowkhamba Sanskrit Series, Benares).

Śatadūṣani with Caṇḍamāruta—the first fifteen Vādas only (according to the Śāstramuktāvali Edition—Conjeeveram).

Nyāyasiddhāntajñāna—up to the end of Buddhīpariccheda or the 5th Pariccheda (Pandit, Benares).

(b) Books prescribed—Same as under Advaita—Final Examination

*Dvaita—Preliminary Examination*

Books prescribed—

Brahmasūtras with Madhvācārya's Bhāṣya.

Tattvapraśaṅgikā, by Jayatīrtha.

Gītātātparyā-nirṇaya with Jayatīrtha's Tīkā.

Madhāvabhāṣya on the Bṛhadāraṇyakōpaniṣad.

Madhvācārya's Anuvyakhyāna with Jayatīrtha's

Nyāyasūdhā—Jijñāsādhikaraṇa only.

(Madhva Vilas Book Depôt, Kumbakonam.)

*Dvaita—Final Examination*

(a) Books prescribed—

Nyāyamṛta (the first Pariccheda only).

Bhēdōjjīvanā, by Vyāsaśiṣya.

Nyāyamṛtataraṅginī (the first Pariccheda only.)

(Madhva Vilas Book Depôt, Kumbakonam.)

(b) Books prescribed—Same as under Advaita—Final Examination (b).

BRANCH III—Nyāya Group

*Preliminary Examination—*

Books prescribed—

Kaṇāda's Vaiśeṣika sūtras.

Gautama's Sūtras with Vātsyāyana's Bhāṣya—Chapters I and II—Viśvanagaram Sanskrit Series (F. J. Lazarus & Co., Benares or Chowkhamba Book Depot, Benares).

**XI] TEXT-BOOKS IN SANSKRIT FOR EXAMS. FOR 753  
TITLES IN ORIENTAL LEARNING,  
1930, 1931, 1932 AND 1933.**

Jagadīsa's Pāncalākṣaṇī and Simhavyāghrī (Chowkhamba Book Depôt, Benares).

Gadādhara's Caturdaśalakṣaṇī :

(i) From the beginning of the work up to the end of Dvītyaśvalakṣaṇa.

(ii) Kūṭāghaṭṭitalakṣaṇa.

(iii) Kūṭāghaṭṭitalakṣaṇa.

(iv) Vyadhikaraṇa-dharmāvacchinnabhāva-khaṇḍana-grantha (Chowkhamba Book Depôt, Benares).

Gadādhara's Paksatā—Sūrvabhaumāntam (Chowkhamba Book Depôt, Benares).

Gadādhara's Siddhāntalakṣaṇam—the whole (Chowkhamba Book Depôt, Benares.)

**Final Examination—**

Books prescribed—

Udayanācārya's Nyāyakusumāñjali (Chowkhamba Book Depôt, Benares, or Bibliotheca Indica, Calcutta).

Gadādhara's Avayava—from the beginning of the work to the end of Pratijñā. { (Chakravartī Ayyangar's Telugu Edition, Mysore.)

Gadādhara's Sāmānyanirukṭi.

Gadādhara's Savyabhicārasāmānyalakṣaṇam. } (Sudarsana Press, Conjeevaram.)

Gadādhara's Satpratipakṣa-vibhājakam.

Khaṇḍadeva's Bhāṭṭarāhasyam—(to the end of prathamā.

Gadādhara's Vyutpattivāda—whole (Nirnaya Sagara Press, Bombay).

Gadādhara's Avacchedakatā-nirukṭi (Chowkhamba Book Depôt, Benares).

**BRANCH IV—Vyākaraṇa Group.**

**Preliminary Examination—**

Books prescribed—

Paribhāṣeṇduṣēkhara.

Parauḍhamanōramā with Śabdaratna—from the beginning to the end of Strīpratyaya. } (Chowkhamba Book Depôt, Benares).

Kāśikāvṛtti—Seventh Chapter only (Lazarus & Co., Benares).

**Final Examination—**

Books prescribed—

Laghuśabdendusēkhara—to the end of Kārākaprakaraṇa (Chowkhamba Book Depôt, Benares).

Mahābhāṣyam—Navāhnikam from the beginning (Nirnaya Sagara Press, Bombay).

Vaiyākaraṇa-bhāṣya-sāra—only the latter part, beginning from the Subaratha-vicāra to the end of the work (Chowkhamba Book Depôt, Bombay).

Laghumanjīśā, by Nagesū, from Dhātvarthavicāra to the end of the Kṛdarthavicāra.

**754 TEXT-BOOKS IN SANSKRIT FOR EXAMS. FOR [APP.  
TITLES IN ORIENTAL LEARNING,  
1930, 1931, 1932 AND 1933.**

**BRANCH V—Sahitya Group.**

*For Sahitya-Sirōmani and Vidvan-Sanskrit, when offered as one of the two languages for the Vidvan Title under Regulation 8—(a) and (6) in Chapter XLI.*

**Preliminary Examination—**

**Books prescribed—**

Bāna's Kādambari—the portion from the Mahāsvetāvṛttānta to the end of Pārvabhūga only (Bombay Sanskrit Series).

Śrīharṣa's Nāṭyadhā cantos 10 and 11.

Kumārasambhava, Cantos 1 to 5 both } (Nirnaya Sagara Press, Bombay).

Sākuntala.  
Mālatīmādhava.  
Mr̥cchakaṭīka.  
Mudrārākṣasa. } (Gopal Narayan & Co., Bombay).

Nīlakanṭhaviṇaya by Nīlakanṭha Dīkṣita, Uchchvāsa III only. (Balamanorama Press, Myslapore).

Danḍin's Kāvyaḍarṣa.

Siddhānta-Kaumudī—Pārvārdha to the end of Apatyādhikāra.

**Final Examination—**

*For Sahitya-Sirōmani and Vidvan-Sanskrit, when offered as one of the languages under Regulations 8-a and 6, Chapter XLI.*

**Books prescribed.**

Siddhānta Kaumudī—Uttarārdha omitting Uṇādi, Vaikika and Svāra Prakaraṇas.

Vararuci's Prākṛta-Prakāśa (Chowkhamba Book Depōt, Benares.)

Vṛṭharatnākara, Chapters 1 to 4.

Vāmana's Kāvyaḷankāra Sūtravṛtti.

*For Sahitya-Sirōmani only, See Ch. XLI, Regulation 6, Branch V Final (b) :*

Mammaṭa's Kāvyaaprakāśa (Bombay Sanskrit Series).

Dhvanyāloka (Kāvyaṃālā Series, Bombay).

Udbhaṭa's Kāvyaḷankārasāra with Pratihārendurāja's vṛtti (Nirnaya Sagara Press, Bombay).

Citrāmṛtāṃśa (Kāvyaṃālā Series, Bombay).

Rasagāṇādhara, by Jagannātha, from the beginning to the end of Rūpaka.

**VIDVAN TITLE EXAMINATIONS.**

*For Sanskrit when offered as the 'subsidiary language for the Vidvān Title under Regulation 3-c, in Ch. XLI.*

*For the Preliminary Examination—*

Kālidāsa's Kumārasambhava—Cantos I to V.

Kādambari Samgraha Pūrvabhāga (whole), by R. V. Krishnamachariyar, Government College, Kumbakonam.

*For the Final Examination—*

Śākuntala by Kālidāsa (whole).

**BRANCH VI**

**Jyotiṣa Group**

**Preliminary Examination**

- |   |  |
|---|--|
| 1. Bhāskarācūrya's Bijaganita—complete.   | } To be had of<br>Nirnaya Sū-<br>gara Press,<br>Bombay or<br>Punjab Sans-<br>krit Book<br>Depot, Lahore. |
| 2. Bhāskarācūrya's Lilāvati—whole omitting<br>Parikarmāṣṭaka, Kuṭṭaka and Paśa.             |  |
| 3. Rākhāganita by Jagannātha—Books II and<br>III.   |  |
| 4. Trikoṇamitī—To be had of Lazarus & Co., Benares.   |  |
| 5. Praśnamārga—Pūrvardha only—To be had of R. Subrah-<br>manya Vattiyar, Kalpathi, Palghat. |  |

**Final Examination**

- |                                     |  |
|-------------------------------------|--|
| 1. Siddhānta-Śirōmaṇi (whole).      | } To be had of Lazarus<br>& Co., Benares or<br>Chowkhamba Book-<br>Depot, Benares or<br>Punjab Sanskrit<br>Book Depot, Lahore. |
| 2. Sūryasiddhānta (whole).          |  |
| 3. Āryabhaṭṭya (whole).             |  |
| 4. Brhat-Samhitā (whole).           |  |
| 5. Brhajjātaka (whole).             |  |
| 6. Muḥūrtācintāmaṇi (whole).        |  |
| 7. Daivajñakāmadhenu (whole).       |  |
| 8. Jyōtirganita by Khetkar (whole). |  |

**BRANCH VII**

**Āyurveda Group**

**Preliminary Examination**

1. Aṣṭāṅgahrdaya-Śārīra-Nidāna-cikitsā sthānāni. (To be had of Anandasrama Press, Poona, or of Nirnaya Sagara Press, Bombay).
2. Carakasamhitā—Sūtrasthāna only—Nirnaya Sagara Press, Bombay.
3. Suśruta-Samhitā—Sūtra and Śārīra only—Nirnaya Sagara Press, Bombay.
4. Rasaratnasamuccaya—The first eleven Chapters—To be had of the Proprietor, Venkateswar Press, Bombay.
5. Pratyakṣa-Śārīra—by Mahāmahopādhyāya Gananath Sen, M.A., L.M. & S., Calcutta.



**756 TEXT-BOOKS IN SANSKRIT AND MARATHI FOR [APP.  
EXAMNS. FOR TITLES IN ORIENTAL LEARNING, 1930.**

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**Final Examination**

1. Carakasamhitā (whole)—omitting Sūtrasthāna.
2. Susrutasamhitā (whole)—omitting Sūtra and Sārīra.
3. Mādhavanīdāna (whole)—To be had of Anandasrama Press Poona, or the Nirṇaya Sagara Press, Bombay.
4. Astāṅgahrdaya (Kalpa and Uttara).
5. Rasaratnasamuccaya—Chap. 12 to the end.
6. Rasahrdaya of Govindapāda—To be had of Nirṇaya Sagara Press, Bombay.
7. Siddhānta Nīdāna by Mahāmahopādhyāya Gaṇanāth Sen M.A., L.M. & S., Calcutta.

**SANSKRIT AND MARATHI**

1930.

**TEXT-BOOKS**

*Regulation 7-A—Sanskrit and Marathi as Co-ordinate languages.  
For the Preliminary Examination—*

**Poetry—**

- (1) Krishna Vijaya (Purvārdha), first 15 Chapters, edited by R. D. Parādkar.
- (2) Nalopakhyaṇ by Raghunāth Pandit.
- (3) Harichandrākhyān by Mukteshwar.
- (4) Mrichhakatik by Parashurām Pant Godbole.
- (5) Nāmsudhā by Wāman Pandit, edited by B. A. Bhide, B.A.

**Prose—**

- (1) Jivit-Kartavya athavā Samsār-Kartavya by D. N. Nābar, B.A., LL.B.
- (2) Moropantāvarṇī Nibandha by V. K. Chiplunkar, B.A.

**N. B.**—All the above books can be had from Messrs. Parachure Puranik & Co., Madhav Bag, Bombay, or New Kitabkhana, Poona (City).

**For the Final Examination—**

**Grammar, Prosody and Poetics :**

- (1) Vṛitta Darpana by Parashurām Pant Godbole.
- (2) Arthālakāṇ by V. V. Bhide, B.A.
- (3) Marathi Bhashechī Ghatana by R. B. Joshi.
- (4) Sulabhālakāṇ by R. B. Joshi.
- (5) Marathi Bhashenteel Vākprachār ani Mhāni by V. V. Bhide, B.A.

**N.B.**—All the above books can be had from Chitrashālā Press, Poona (City).

**XI TEXT-BOOKS IN ORIYA FOR VIDVAN TITLE 757**  
**EXAMINATION, 1930.**

*Regulation 7-B—Marathi, Main and Sanskrit, Subsidiary.*

**Preliminary—**

**Poetry—**

- (1) Krishna Vijaya (Purvārdha), first 15 Chapters, edited by R. D. Parādkar.
- (2) Venisamhār Nātak by Parashurām Pant Godbole.
- (3) Nāmsudha by Wāman Pandit, edited by B.A. Bhide, B. A.
- (4) Mukteshwar : Vana Parva, Chapters 6, 7 and 8 (pages 105—232). Nirnayāsagar Edition.

**Prose—**

- (1) Sukha ani Shanti by Modak, first 10 Chapters.
- (2) Shiv Chhatrapati's life by Sabhāsada.
- (3) Essays on Marathi Grammar by Krishna Shastri Chiplunkar.
- (4) Proudha Bodha Vyākaranā by R. B. Joshi.

**Final—**

**Grammar, Prosody and Poetics :**

- (1) Alankār Darpana by R. V. Talekar.
- (2) Arthālankar by V. V. Bhide, B.A.
- (3) Marathi Bhashechi Ghatāna by R. B. Joshi.
- (4) Marathi Bhashenteel Vākprachār ani Mhant by V. V. Bhide, B.A.
- (5) Vritta Darpana by Parashurām Pant Godbole.
- (6) Kekāvālī by Moropant.
- (7) Ishagunādarsha by Dr. G. K. Garde.
- (8) Nala Damayanti Akhyān b Raghunāth Pandit.

*N. B.*—All the above can be had from New Kitabkhana, Poona (City), or Messrs. Parachure Puranik & Co., Madhav Bāg, Bombay.

**ORIYA**

**Oriya as a Co-ordinate-Language with Sanskrit**

**1930.**

**For the Preliminary Examination—**

- Pranāyini by Nilakantha Das.  
 Bhāgavata, by Jagannāth Das (8th Skandha Vaman carita).  
 Rasakallōla (Cantos 18, 32, 33 & 34), by Deenakṛṣṇa Das  
 Mamu, by Fakir Mohan Senapati.  
 Prabandhamālā, by Madhusūdan Rao  
 Ratnākār Campu, by Balabhadra Kavīsūrya.

} Trading Company, Cuttack,

**758 TEXT-BOOKS IN ORIYA FOR VIDVAN TITLE (APP.  
EXAMINATION, 1930.**

Radhanath-granthavalee (Chilka, ) Durbar, Usha and Vivek).	
<i>For the Final Examination—</i>	
Alankar Bōdhōdāya, by V. S. Deb.	
Alankar Sara, by S. Deb (only Chandaprakarana)	
Vyākaraṇa Pravēsa, by Radhanath Rai.	} Trading Company, Cuttack.
Ulkal Sahityara Etihasa, by Tarini- caran Ratho.	
Sārala Carita, by Mr̥tyunjaya Rath.	
Prabandhāvali (pp. 1 to 154), by Vyāmasundar Raja Guru.	

*Oriya as the main language with Sanskrit as a Subsidiary language  
Regulations 2 and 3—Vidvan (b)*

**PRELIMINARY EXAMINATION**

**Poetry—**

1. Rajadharma—Sāntiparva—Kṛishnasimha Mahābhārata.
2. Sree Mukunda Dev, by Chintamoni Mahānty.
3. Koteebrahmānda Sundaree (cantos 1—10), by Upendrabhanja.
4. Pranayini, by Nilakanth Das.
5. Rasakallola, by Deenakrishna Das.
6. Kishore Chandrananda Champu (Oriya portion only), by  
Baladev Kavisurya.
7. Ratnakara Champu, by Kavisurya.
8. Bhāgavata (Vāman Charita only), by Jagannath Das.

**Prose—**

1. History of Orissa, by Kṛpasindhu Misra.
2. Sea Voyage of Orissa in the Past—Birupaksha Kar, B.L.
3. Bai Mahantipanji, by Gopal Chandra Praharaj.
4. Mamu, by Fakir Mohan Senāpati.
5. Itihasaprasanga, by Chintamoni Acharya.
6. Viveki, by Radhanath Roy.

**Drama—**

1. Uttararam Charita, by Madhusudan Rao.
2. Prakrutapranaya Natak, by Sree Rādhā Mohan Rajen-  
dra Dev.
3. Kalapahara, by Asvinikumar Ghosh.

**Grammar—**

1. Sukhabodha Vyakarana, by Mrutyunjaya Rath.
2. Vyakarana Sopan, by Chandramohan Maharana.

3. Oriya Vyakarana, by an experienced teacher.

*N.B.*—All the books can be had from the Trading Company, Cuttack, or from the Students' Stores, Berhampur (Ganjam District).

#### FINAL EXAMINATION

##### *Poetry—*

1. Sundarakanda—Ramayana—by K. Patnaik.
2. Moksha Dharma—Santiparava—Krushnasimha Mahabharata.
3. Adyatma Ramayan by Suryamoni Chyau Patnaik.
4. Baideheeshavilasa (1—25), cantos, by Upendra Bhanja.
5. Bidagdha Chintamoni (cantos 1—35) by Abhimanyusamanta Simhar.
6. Pravandha Purnachandra by "Yadumoni."

##### *Grammar—*

1. Vyakarana Pravesh, by Radhanath Roy.
2. Oriya Vyakarana, by Madhusudan Das.

##### *Prosody and Poetics—*

1. Alankar Bodhodaya by V. S. Deb.
2. Alankar Sara by S. Deb. (Chandaprakarana).
3. Pravandha vallee (pages 1 to 154) by Syamasundar Rajguru.

##### *History of Language and Literature—*

The following books are recommended:—

1. Sarala Charita, by Mrutyunjaya Rath.
2. Utkala Sahityara itihasa, by Tarini Charana Rath.
3. Beams: Comparative Grammar of the Guardian Languages.
4. Wilson: Philological lectures on Sanskrit and the Derived Languages.
5. Gray: Indo-Iranian Phonology.
6. Bhasatatwa; by Gopinath Nandu Sarma.
7. Prachina Utkal by Jagabandhu Simh.

*N.B.*—All the books except Nos. 3, 4 and 5 under History of Language and Literature can be had from the Trading Company, Cuttack, or from the Students' Stores, Berhampur (Ganjam District); books Nos. 3, 4 and 5 can be had from the Oriental Books supplying Agency, 15, Shukrawar Peth, Poona City.

## TAMIL

1930.

WHEN OFFERED AS ONE OF THE LANGUAGES MENTIONED IN  
REGULATION 7 (A) & (C)

*For the Preliminary Examination—*

**Poetry :**

- |  |   |  |
|--|---|--|
| Kambarāmāyanam, Ayōdhyākāṇḍam<br>Prabhulingallai, stanzas 1 to 304<br>Nālaḍiyār, Perutpāl<br>Tiruvarangakkalambakam<br>Nālāyiraprabandham, Periyatirumoli,<br>51 to 100<br>Tēvāram, Panmurai, Appar, Tirunēri-<br>sai, 51 to 100 | } | (Ripon Press, Madras).   |
| Pattuppāṭṭu, Maturaikkāñci<br>Puṇaṇāṇṟu, 1 to 50<br>Cilappatikāram, Maduraikkāṇḍam<br>Cintāmaṇi—Guṇamālaiyār ilambakam   | } | Mahamahopadhyaya<br>V. Swaminatha Ayyar,<br>Tiruvattisvaranpet,<br>Triplicane, Madras. |
- Tirukkuṟal, Aṟattuppāl (Navalar Press, 800, Mint Street, Madras),  
 Palamoli, 51 to 100, by T. Chelvakesavaraya Mudaliyar (T. P.  
 Alagan Perambur, Madras.)

**Prose :**

- Mativāṇan, by V. G. Suryanarayana Sastri (V. S. Natarajan,  
 No. 735, Kakatope Street, Madura.)
- Pancañantram, by Tandavaraya Mudaliyar (C. Coomaraswami  
 Nayudu & Sons, Madras).
- Essay on Kambar, by T. Chelvakesavaraya Mudaliyar (T. P.  
 Alagan, Perambur, Madras).

*For the Final Examination—*

**Grammar, Prosody and Poetics :**

- |  |   |   |
|--|---|---|
| Nannūl Viruttiyural<br>Akapperuḷviḷakka-ural | } | (Navalar Press, 800, Mint Street,<br>Madras). |
|--|---|---|
- Purapperuḷvēṇpā-mālai : Mahamahopadhyaya V. Swaminatha  
 Ayyar.
- Yāpparunkalavirutti : Longmans, Green & Co., Madras.
- Daṇḍiyalankāram : Ripon Press, Madras.
- Ilakkaṇavilakkam, Pāṭṭiyal : Ripon Press, Madras.

WHEN OFFERED AS ONE OF THE MAIN LANGUAGES MENTIONED  
IN REGULATION 7 (B)

*For the Preliminary Examination—*

- |   |   |                        |
|---|---|------------------------|
| Tiruvarangattandādi<br>Arunaikkalambakam<br>Amudāmbikai-pillattamil | } | (Ripon Press, Madras). |
|---|---|------------------------|

Kalasaiccilēḍai-venbā	}	(Ripon Press, Madras).
Cidambara-Ceyyutkēvai		
Turaisaikkēvai		
Villiputtīrār Bhāratam—first five parvams		
Naiḍatam		
Prabhulingallai		
Cevvalccūḍuvār Bhūgavatam—tenth Kāṇḍam		
Tirukkural-Aṟattuppāl Parimēlaḷagar Uṟai		

**Prose—**

Tamīl Varālāru—2 parts—by Rao Bahadur K. Srinivasa Pillai Tanjore.

Tolkāṇṇiya-p-ṇeṟuḷadhikāra-ārāycci, by M. Raghava Ayyangar, Tamil Lexicon Office, Chepauk, Madras.

Essay on Kambār, by T. Chelvakesavaraya Mudaliar (T.P. Alagan Bookseller, Perambur.)

**Grammar—**

Nannūl Viruttiyurai }  
 Akapperul-villakkam } (Ripon Press, Madras.)

Purapperuḷvenbū-mālai—Mahamahopadhyaya V. Swaminatha Ayyar, Tiruvettisvaranpet.

Yūpparungalakkārgai }  
 Daṇḍiyalankāram } (Ripon Press, Madras.)  
 Cidambarappaṭṭiyai }

**For the Final Examination—**

**Poetry—**

Kandapurāṇam, first two Kāṇḍams }  
 Kambārūmayānam, Kiśkindhaka- }  
 ḍam and Sundara Kāṇḍam }  
 Tiruccitrambalakkōvaiyar, Pēra- }  
 siriyaṟ Uṟai }  
 Tirukkural-porutpāl: Parimēlaḷa- } (Ripon Press, Madras.)  
 gar Uṟai }

Sundaramūrtti Nāyanār Tēvaram }  
 Tirumangaimannan Periya Tiru- }  
 molli }  
 Tīṇaimālai-nūṭṭraimpadu }  
 Maṇimēkhalai, Kūḍais 1-26 }  
 Puṟaṇanūṟu, stanzas 1-250 } Mahamahopadhyaya V.  
 Paṭṭuppāṭṭu, Tirumurukāṭṭpāḍai } Swaminatha Ayyar, Tiru-  
 and Maturaikkānci, Naccinark- } vettisvaranpet, Madras.  
 kinīyar, Uṟai. }

**Grammar :**

Tolkāṇṇiyam. Eluttadhikāram, Naccinārkkiniyam (Ripon Press, Madras.)

Do. Colladhikāram, Ilambūraṇam. Edited by C. R. Na-  
 masivaya Mudaliar (C.C.N. & Sons, Madras.)

Do. Pēṟuḷadhikāram, Naccinārkkiniyam and Pērasiri-  
 yaṟ Uṟai (Longmans, Green & Co., Madras.)

Yāpparungala Virutti (Longmans, Green & Co., Madras).

Māranalankāram, Porulaṇṇiyai (Madura Tamil Sangam, Madura).

Veṇbappāṭṭiyai (Ripon Press, Madras).

**History of Language and Literature—**

The following books are recommended :—

Caldwell's Comparative Grammar, Introduction.

Grierson's Linguistic Survey, Volume IV.

History of the Tamil Language, by V. G. Suryanarayana Sastrī.

Essay on Tamil, by T. Chelvakesavaraya Mudaliyar.

Primer of Tamil Literature, by M. S. Purnalingam Pillai.

Tamil Pulavar Caritam, by A. Kumaraswami Pulavar, Chunnakam, Jaffna.

**UNDER REGULATION 7 D.**

**TAMIL ALONE**

**For the Preliminary Examination—**

**Poetry :**

Tiruvarangattandadi	}	(Ripon Press, Madras).
Arunaikkalambakam		
Amudambikai—pillaittamil		
Kalasaicciḷēdai—Venba		
Cidambara-Ceyyutkovai		
Turaisaikkovai		
Villiputturar Bharatam—first five		
Naidatam [paruvams.		
Prabhulingalilai		
Cevvaiccuḍuvar Bhagavatam Tenth		
Kandam		
Tirukkural—Arattuppal, Parimela-lagar Uṭai		

**Prose :**

Tamil Varalaru—2 parts—by Rao Bahadur K. Srinivasa Pillai Tanjore.

Telkappiya-p-peruladhikara-araycci, by M. Raghava Ayyangar, Tamil Lexicon Office, Chepauk, Madras.

Essay on Kambar, by T. Chelvakesavaraya Mudaliar. (T. P. Alagan, Book-seller, Perambur.

Colavamsa Charittram by T. A. Gopinatha Rao.

**Grammar :**

Nannul Viruttiyurai	}	Ripon Press, Madras.
Akapperul—Vilakkam		
Purapporai venba-Malai Mahamahopadhyaya V. Swaminatha Ayyar, Tiruvettisvaranpet, Madras.		
Yapparungalakkarigai	}	(Ripon Press, Madras.)
Dandiyalankaram		
Cidambarappattiyai		

**History of Tamil country :—**

The question paper on the History of the Tamil country may be set on the information available from the set books prescribed under prose for the examination with the following as books of reference:—

Tamil Varalaru by late Rao Bahadur K. S. Srinivasa Pillai;  
 History of Tamil by G. V. Doraiswami Pillai, published  
 by the Association Press;

Kadaivallalar Kalam by Rao Bahadur Dr. S. Krishnaswami  
 Ayyangar, published by the Madura Tamil Sangam;

Karikala Cholan, published by Pandit Olaganatha Pillai of  
 Tanjore;

Seran Senguttuvan by Pandit M. Raghava Ayyangar;

Pallavas, by Mr. P. T. Srinivasa Ayyangar, (2 parts).;

History of the Cholas, by Mr. Gopinatha Rao.

**For the Final Examination—**

**Poetry :**

Kandapuram, first two Kandams.

Kambaramayanam, Sundara Kan-  
 dam.

Tiruccirrambalakkovaiyar, Pera-  
 siriyar Urai.

Tirukkural-Perutpal : Parimelala-  
 gar Urai

Sundaramurthi Nayanar Tevaram.

Tirumangaimannan Periya Tirumoli.

Ripon Press, Madras.

Tinaimalai-Nutraimpadu.

Manimekalai, Kadals 1—26.

Purananuru, Stanzas 1—250.

Pattupattu, Tirumurukatrappadai  
 and Maduraikkanci, Naccinark-  
 kiniyar Urai.

Mahamahopadhyaya V. Swa-  
 minatha Ayyar, Tiruvattis-  
 waranpet, Madras.

**Prose :**

Tamil Inscriptions 1 to 20. Edited and published by the Univer-  
 sity for the B.A. Degree Examination. Part II,

**Grammar :**

Tolkappiyam—Elluttadhikaram, Naccinarkkiniyam (Ripon Press,  
 Madras.)

Do. Colladhikaram, Ilamburanam, Edited by C. R.  
 Namasivaya Mudaliyar (C.C.N. & Sons, Madras).

Do. Peruladhikaram, Naccinarkkiniyam and Perasiri-  
 yar Urai (Longman's Green & Co., Madras).  
 Yapparungala Virutti (Longman's Green & Co.,  
 Madras.)

Maranalankaram Perulanthyiyai (Madura Tamil  
 Sangam, Madura).

Venbappatiyal (Ripon Press, Madras).



**History of Language and Literature—**

\*The following books are recommended:—

Caldwell's Comparative Grammar, Introduction.

Grierson's Linguistic Survey, Volume IV.

History of the Tamil Language, by V. G. Suryanarayana Sastri.

Essay on Tamil, by T. Chelvakesavaraya Mudaliar.

Primer of Tamil Literature, by M. S. Purnalingam, Pillai.

Tamil Pulavar Caritam, by A. Kumaraswami Pulavar, Chunnakam, Jaffna.

Tolkappiyam-Colladhikaram.

**TELUGU**

**1930.**

**TELUGU WHEN OFFERED AS ONE OF THE LANGUAGES  
UNDER REGULATION 7 (A) AND (C).**

FOR THE PRELIMINARY EXAMINATION

**Poetry—**

1. Bharatam, Sabhaparvam, 2nd Aswasam.
2. Panditaradhyacharitam, Durvasa's story and Sukesi's story.
3. Bhagavatam 10th Skandha, Purvabhaga, Rukmini Kalyanam
4. Manucharitam, 2nd Aswasam.
5. Vasucharitam, 2nd Aswasam.
6. Nila Sundari Parinayam, 1st Aswasam.
7. Balavyakaranam. Paravastu Chinnayya Suri.
8. Kavijanasrayam, published by Andhra Sahitya Parishat, Cocanada.

**Prose—**

1. Krishnapaksham by Devulapalli Venkata Krishna Sastri Garu, B.A. Pithapuram.
2. Vikramarka Devacharitam. Tirupati Venkata Kavulu, Challapilla Venkata Sastri Garu, Kadiam (Post Office), East Godavari District.
3. Rajani by Venkata Parvatisvar Kavulu.
4. Lives of authors prescribed.

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\*Subject to approval by the Academic Council.

**FOR THE FINAL EXAMINATION**

***Grammar, Prosody and Poetics—***

1. Bharatam-Udyogaparvam, 2nd Aswasam.
2. Kalapurnodayam, 1st Aswasam from the beginning of the story.
3. Praudhavyakṣanam.
4. Appakaviyam, 3rd canto.
5. Narasa Bhupaliyam.
6. Sringara Naishadham, 4th Aswasam, Nala's Dutyam.
7. Raghava Pandaviyam, 1st canto from the beginning of the story.

**TELUGU WHEN OFFERED AS THE MAIN LANGUAGE.**

**UNDER REGULATION 7 (B).**

**FOR THE PRELIMINARY EXAMINATION**

***Poetry—***

1. Bharatam, Sabhaparvam, 2nd canto.
2. Virataparvam 2nd canto.
3. Harivamsam, Purvabhagam, 5th canto.
4. Uttaraharivamsam, 1st and 2nd Aswasams.
5. Prabhavati Pradyumnam, 1st two cantos, beginning with the story.
6. Sivarathri Mahatmyam, 1st two cantos.
7. Raghuvamsam of Adipudi Somanatha Rao, 1st three cantos.

***Prose—***

1. Sarojini by Anantapantula Venkateswarulu Garu, B.A., B.L., Parvatipuram.
2. Brahmasutrasaram. By Vavilala Venkata Sivavadhanulu, Retired Sub-Judge, Masulipatam.
3. Aranyika by Venkatapurvateeswara Kavulu, Pithapuram.
4. Prachina Haindava Prajaswamika Prabhutvam by Desabhatla Lakshminarasimham, Anantapur.
5. Ramayanam (Prose) by T. Tevapperumallayya from 17th sarga to 31st sarga, Ananda Press, Madras.

***Drama—***

Sri Krishna Tula Bharam. Potukuchi Subbayya Garu,  
 L.T., Deputy Inspector of Schools, Rajahmundry.

***Grammar—***

1. Balavyakṣanam.
2. Praudhavyakṣanam.
3. Kavyalankara Chudamani from 1st to 8th Aswasam.
4. Lives of prescribed authors.

766 TEXT-BOOKS IN KANARESE FOR VIDVAN TITLE [APP.  
EXAM., 1930.

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FOR THE FINAL EXAMINATION

1. Vijayavilasam
2. Parijatapaharanam.
3. Sringaranaishadham, 1st two cantos.
4. Amuktamalyada, 4th Aswasam.

*Prose—*

1. Ekantaseva by Venkataparthiwaras Kavulu.
2. Nyayadarsanam by K. V. Lakshmana Rao M.A. 1st Chapter. Telugu Desa Vagmaya Samiti, Triplicane, Madras.

*Advanced Grammar, Prosody and Poetics—*

1. Andhra Sabda Chintamani.
2. Adharvana Karikal.
3. Appakaviyam, 3rd canto.
4. Anantuni Chandassu, the whole except Yatiprasaprakaranamu
5. Narasa Bhupaliyam.
6. Andhra Dasarupakam.
7. Alamkaropanyasam from Andhra Vijnana Sarvaswam.

*History of Language and Literature—*

- I. Bhashavangmayacharitam (Books recommended) 1. Seshagiri Sastri's Philology, 2. History of Andhra Literature by Mr. Vanguri Subba Rao, 3. Kavula Charitam, by Veeresalingam Pantulu, New and Old Editions. Kavijeevitamulu. 4. Sringara Sreenadham by Veturi Prabhakara Sastri.
- II. Pracheenandhra Bhashaswarupam from Raja Raja Narendra Sanchika and Andhra Maha Bharata Atarika and Telugu of Raja Raja Narendra's times (from the same book).

**KANARESE**

1930.

UNDER REGULATION 7 (A) AND (C).

*Poetry and Prose—*

- (i) Gadayuddha by Ranna (Kavya Kalanidhi Office, Mysore).
- (ii) Ramāswamēdha by Muddana (Kavya Kalanidhi Office, Mysore).
- (iii) Vidyāranya Kavya by H. Chidambaraiya (Bhakta Bandhu Office, Basavangudi, Bangalore.)
- (iv) Swapna Vasavadatta Nataka by M.D. Alasingarachar (M. S. Rao & Co., Avenue Road, Bangalore City).
- (v) Visha Vriksha by B. Venkatachar (Royal Press, Mysore)

*Grammar, Prosody and Poetics—*

- (i) Kavyavalokana by Naga Varma (Government Central Book, Depdt, Bangalore).
- (ii) Kavi Charitre, Vol. II—by Rao Bahadur R. Narasimha-char, M.A., Malleshwaram, Bangalore.
- (iii) Nandi Chhandassu (Kavya Kalanidhi Office, Mysore).
- (iv) Karnataka Vyakaranopanyasa Manjari by R. Raghunatha Rao, B. A. (M. S. Rao & Co., Bangalore).
- (v) Bhasha Sastra by R. Tatachar, M.A., L.T., (M.S. Rao & Co., Avenue Road, Bangalore).

UNDER REGULATION 7 (B)

*Preliminary Examination*

*Poetry and Prose—*

- (i) Adbhuta Ramayana (Kavya Kalanidhi Office, Mysore).
- (ii) Chelvanarayana Sataka by M.D. Alasingarachar (E. Venkateshwar & Co., Madras).
- (iii) Kundamala Nataka by B. Rama Rao, M.A., LL.B. (B.M. Nath & Co., Vepery, Madras).
- (iv) Vidhyaranya Kavya by H. Chidambaraiya, pp. 23 to 51 Chapters 3 and 4 (Bhakta Bandhu Office, Basavan-gudi, Bangalore).
- (v) Arya Kirti Part I by C. Vasudevaiya (Malleshwaram, Bangalore).

*Grammar.—*

Kavyavalokana—Sabdasinghili—by Nagavarma.

*Final Examination*

*Poetry and Prose—*

- (i) Kadambari—Purva Bhaga, by Nagavarma Government Central Book Depot, Bangalore).
- (ii) Ramashwamedha by Muddana.
- (iii) Swapna Vasavadatta by M. D. Alasingarachar.
- (iv) Ramachandra Charita Purana Sangraha—Edited by B. Krishnappa, M.A. (Narayana Sastri Road, Mysore).
- (v) Atma Saktiya Tejassu by H. Chidambaraiya (Bhakta Bandhu Office, Bangalore).
- (iv) Sakuntala Nataka Vimarshe by B. Krishnappa, M.A.

*Grammar, Prosody and Poetics—*

- (i) Sabdamani Darpana by Kēsiraja, (B. E. M. Book Depot, Mangalore).
- (ii) Prosody by Nagavarma, (B. E. M. Book Depot, Mangalore)

- (iii) Sringara Ratnakara by Kavi Kama (Kavyakalanidhi Office, Mysore).
- (iv) Apratima Vira Charite by Tirumaliengar (Kavyakalanidhi Office, Mysore).

*History of Language and Literature—*

- (i) Karnataka Kavi Charite by Rao Bahadur R. Narasimha-char, M.A., Vols 1 and 2 (Author, Malleshwaram, Bangalore).
- (ii) Bhasha Sastra by R. Tatachar, M.A., L.T.
- (iii) Vyakaranopanyasa Manjari by R. Raghunatha Rao B.A.

## MALAYALAM

1930.

WHEN OFFERED AS ONE OF THE LANGUAGES UNDER  
REGULATION 7 (A) AND (C)

PRELIMINARY EXAMINATION

*Poetry—*

1. Kannassa Ramayanam—Kishkindha Kandam—Selections published by the University (B.A., Vol. I, Part II).
2. Karna Parvam—Mahabharatam, by Ezuthachan (Any Press).
3. Kirmmeera Vadham—Kathakali, by Kottayath Thampuram (Any Press).
4. Chintavishtayaya Seeta, by N. Kumaran Asan (Manager, S. R. Book Depot, Puthen Chandai, Trivandrum).
5. Sahityamanjari—Vol. IV, by Vallathol Narayana Menon (K. Kutti Krishna Marar, Tupprangod, S. Malabar).

*Drama—*

Manipravala Sakuntalam, by Valia Koil Thampuram (B. V. Book Depot, Trivandrum).

*Prose—*

Sankaracharya Swamigal, by K. Vasudevan Moosad (Saraswati Vilasam Book Depot, Trichur).

FINAL EXAMINATION

1. Leelathilakam—A. Krishna Pisharoty (Palace Tutor, Trivandrum).
2. Kerala Panineevam, by A. R. Raja Raja Varma, M.A., (B. V. Book Depot, Trivandrum).
3. Bhasha Bhushanam, by A. R. Raja Raja Varma, M.A. (B. V. Book Depot, Trivandrum).

4. Vrithamanjari, by A. R. Raja Raja Varma, M.A., (B. V. Book Depot, Trivandrum).
5. Sahityacharitam, by A. Krishna Pisharoty, Palace Tutor, Trivandrum.

**WHEN OFFERED AS THE MAIN LANGUAGE UNDER  
 REGULATION 7 (B)**

**PRELIMINARY EXAMINATION**

***Grammar—***

1. Kerala Kaumudi, by T. M. Kovunni Nedungadi (Malayala Manorama Press, Kottayam, Travancore).
2. Leelathilakam by A. Krishna Pisharoty, Palace Tutor, Trivandrum.

***Poetry—***

1. Nalacharitam Kathakali—2nd and 3rd days' plays (B. V. Book Depot, Trivandrum).
2. Krishnagatha—from the beginning to the end of Vatsa-theyam (Mangalodayam Press, Trichur).
3. Unnuneeli Sandesam—Pura Sandesam. Edited by A. A. Krishna Pisharoty, Palace Tutor, Trivandrum.
4. Adhyatma Ramayanam, by Ezuthachan (Any Press).

***Prose—***

1. Pracheenaryayarthathile Viswa-Vidyalayangal, by P. Anujan Achan (Ramanuja Printing Works, Trichur).
2. Rama Raja Bahadur, by C. V. Raman Pillai, B.A. (B. V. Book Depot, Trivandrum).
3. Tagore Kanda India, by Puthezath Raman Menon, B.A., B.L. (Vidya Vinodini Press, Trichur).

**FINAL EXAMINATION**

1. Ramacharitam—10 to 18 Patalams, both inclusive (B. V. Book Depot, Trivandrum).
2. Santana Gopalam—Pana, by Poonthanam (Jnana Sagaram Book Depot, Trichur).
3. Rajaratnavaleeyam—Champu (Jnana Sagaram Book Depot, Trichur).
4. Vijayodayam—Pantalam Kerala Varma (S. R. Book Depot, Trivandrum).
5. Ascharya Chudamani by Kunhu Kuttan Thampuran (B. V. Book Depot, Trivandrum).
6. Pancharatram by Vallathol Narayana Menon (A. R. P. Press, Kunnamkulam, Cochin State).
7. Dakshayagam Kathakali, by Irayimman Thampil.
8. Kuchela Vritham Vanchi Pattu, by Ramapurath Variar.

*Grammar, Rhetoric, etc.—*

1. Kerala Panineeyam, by A. R. Raja Raja Varma, B.A. (B. V. Book Depot, Trivandrum).
2. Bhasha Bhushanam, by A. R. Raja Raja Varma, B.A. (B. V. Book Depot, Trivandrum).
3. Vrithamanjari, by A. R. Raja Raja Varma, B.A., (B. V. Book Depot, Trivandrum).
4. Sahityalochanam, by P. M. Sankaran Nambiar, M.A. (Hons). (Saraswati Vilasam Book Depot, Trichur).
5. Nataka Pravesika, by A. D. Hari Sarma (Vaneekalebaram Press, Trichur).
6. Bhasacharitam, by P. Govinda Pillai, B.A.
7. A Short History of Malayalam Literature, by P. Sankaran Nambiar, M.A., (Hons.) (Saraswati Vilasam Book-Depot, Trichur).
8. Sahityacharitam, by A. Krishna Pisharoty, Palace Tutor, Trivandrum.

**MUNSHI-I-FAZIL TITLE EXAMINATION****1930.****A. Preliminary Examination—**

Ruqqaat-i-Abul-Fazl, Daftar-i-Awwal.

Diwan-i-Ghani, to the end of Radif-i-Dal.

The Punjab University Intermediate Persian Course of 1918.

Khyalistan, by Sajjad Haydar.

Intikhab-i-Kalam-i-Mir Taqi, by Abdul-Haq.

Musaddasi-Hall.

Taubatun-Nasuh.

Sullamul-Adab.

**B. Final Examination—**

1. Maqumat-i-Hamidi, First ten Maqamat.

2. Makhzan-i-Aarar, by Nizami.

3. The Punjab University B.A. Persian Course of 1926.

4. Hikmat-i-Amall, by Sajjad Mirza Beg.

5. Qasaid-i-Zauq.

6. Masnawi Gulzar-i-Nasim.

7. Fasana-i-Ajaib.

8. Tuhfat-ul-Adab.

NOTE.—All the books are available from the Manager, the  
Islamia Book Depot, Kurnool.

**AFZAL-UL-ULAMA TITLE EXAMINATION**

**• 1930**

**A. Preliminary Examination—**

1. Tafsir-i-Bayzawi, Suras Al-i-Imran and Nisa.
2. Mishkatul-Masabih, Chapters on Taharat, Salat; Zakat and Sawm,
3. Hidayah, same Chapters as for No. 2.
4. Sharh-i-Aqayid by Nasafi.
5. Mirqat.
6. Tarikh-i-Suyuti.
7. Diwan-i-Ali.
8. Maqamat-i-Hariri, 21 to 30 Maqamat, both inclusive.

**B. Final Examination—**

1. Bayzawi, Suras 5 and 6.
2. Sahihul-Bukhari, Chapters on Ilm, Shufa, Nikah and Talaq.
3. Al-Maj allah.
4. Sharh-i-Tahzib.
5. Al-Mujib fi Akhbari Maghrib, by Abdul-Wahid al-Marrak-ashi.
6. Diwan-i-Nabighah al-Zubyani.
7. Mukhtasarul-Maani.
8. Al-Hamasah, Babul-Marathi and Babul Nasib.
9. Majaniul-Adab, Vol. V.

NOTE.—All these books are available from the Manager, the Islamia Book Depot, Kurnool.

**SANSKRIT**

**1931.**

BRANCHES i to vii.  
 Same as for 1930.

**MARATHI**

**1931.**

Same as for 1930.

**ORIYA**

**1931.**

Same as for 1930.



## TAMIL

1931.

Same as for 1930.

## TELUGU

1931.

### Vidvan A and C

PRELIMINARY.

**Bharatamu.**—Sabha Parvamu—2 canto: Aranya Parvamu, verses 1—145: Udyoga Parvamu, Canto 3.

**Kavijanasrayamu.**

**Manu Charitra, 2nd Canto.**

**Balavyakaranamu.**

Amukta Malyada, 2nd Canto.

Raghava Pandaviyam, 2nd Canto.

**Accha Telugu Ramayanamu, Sundara Kandamu, by Kuchi-manchi Timma Kavi.**

**Vasantasena by Kallakuri Gopala Rao.**

**Bhagavata Saramu by Vavilala Siva Avuthanulu, B.A., Masulipatam. (1st 6 skandhas).**

Lives of the authors of the first seven works prescribed.

FINAL

**Vasu Charitram, 3rd Canto.**

**Praudha Vyakaranamu.**

Sringara Naishadham, 3rd canto.

**Appa Kaviyamu, 3rd canto.**

**Narasa Bhupaliyamu.**

**Andhra Sabda Chintamani.**

### Vidvan under Regulation B

PRELIMINARY

**Bharatam: Aranya Parvamu: Canto IV: Virata-Canto IV.**

**Manu Charitra: Canto II.**

**Markandeya Purana by Marana, (From verse 210 in 4th canto to verse 105 in the 5th canto).**

**Kasi Khandamu: Canto III.**

**Parijatapa Haranamamu: Cantos I & II.**

**Megha Sandesamu** by Vaddadi Subbarayudu, **Rajahmundry.**  
**Bhartrihari: Vairagya Śatakamu** by Yenugu Lakshmana Kavi.

**Naganandamu** by Vedam Venkataraya Sastri.

**Andhrulu Charitra: 1st 6 Prakaranas** by Ch. **Veerabhadra Rao, Rajahmundry.**

**Bhagavad Gita: 1st 3 cantos—Godavari Hindu Samajam, Rajahmundry.**

*Prosody, Poetics and Grammar—*

**Bala Vyakaranamu.**

**Kavyalankara Chudamani.**

**Parudha Vyakaranamu**

#### FINAL

**Bharatamu: Adi Parva, Canto IV: Udyoga Parva, Canto III.**

**Haravilasamu: Canto III.**

**Vasu Charitramu: Canto III.**

**Raghava Pandaviyamu: Canto II.**

**Accha Telugu Ramanayamu: Bala Kandamu** by Kuchimanchi **Timma Kavi.**

**Raghuvamsamu: Adipudi Somanatha Rao: Cantos I to IV.**

**Uttara Rama Charitra** by Vedam Venkataraya Sastri, **Nellore.**

**Dasakumara Charitra: Purvapeetika** by Y. Sanjiva Rao: **V. Ramaswami Sastrulu & Sons.**

**Brahma Sutra Saramu** by Vavilala Siva Avadhanulu, **Masulipatam.**

**Ramayana Maha Bharata Vimarsa Vicharana** by **Akkiraju Umakantham Vidyasekara Garu.**

**Vasucharitra Vimarsanam** by Vijjala Chinna Sitarama Sastrulu Garu, **V. Ramaswami Sastrulu & Sons.**

*Prosody, Poetics and Grammar—*

**Andhra Bhasha Bhushanam.**

**Andhra Sabda Chintamani.**

**Adharvana Karikavali.**

**Appa Kaviyani, Cantos I, III & IV.**

**Narasa Bhupalayamu.**

*History of Language and Literature—*

*List of Books recommended for study—*

**Andhra Vangmaya Charitramu: by V. Subba Rao Garu.**

**Lives of Poets** by G. Sriramamurthy.

Lives of Poets by Rao Bahadur K. Veerasalingam Pantulu Garu.

Telugu Philology by M. Seshagiri Sastri.

Mile stones in Telugu Literature by G. Subbaramayya Pantulu Garu.

'Life of Death' for Vernaculars by P. T. Srinivasa Ayyangar.

Telugu Composition Controversy by G. V. Appa Rao.

Memorandum on Modern Telugu by Rao Sahib G. V. Ramamurti Pantulu Garu.

Defence of Literary Telugu by J. Ramayya Pantulu Garu.

Prachinandhra Bhasha Swarupamu.

Andhra Maha Bharata Avatharika from Raja Raja Narendra Sanchika, Rajahmundry.

Bhashotpatthi Kramamu by K. Ramakrishnayya, M.A., Maharaja's College, Vizianagaram.

## KANARESE

1931

### Vidvan Title Examination

UNDER REGULATION 7 A AND C

#### *Poetry and Prose—*

- |  |                                     |
|--|-------------------------------------|
| (i) Gadayuddha by Ranna  | } Kavya Kalanidhi Office,<br>Mysore |
| (ii) Chika Devaraja Vamsavali by Tirumalarya   |                                     |
| (iii) Yasedara charitre by Janna   |                                     |
| (iv) Nagananda Nataka by N. Anantanarayana Sastri (Chandrika Book Stall, Mysore.)  |                                     |
| (v) Chandra Gupta Chakravarthi by A. Venkat Rao, B.A., L.T., (People's Printing and Publishing House, Triplicane, Madras). |                                     |

#### *Grammar, Prosody and Poetics—*

- (i) Karnataka Kavi Charitre by R. Narasimhachar, Vol. 1 (Revised Edition).
- (ii) Bhasha Sastra by R. Tatachar, M.A., L.T., (M. S. Rao & Co., Avenue Road, Bangalore).
- (iii) Vyakaranopanyasa Manjari by R. Raghunatha Rao, B.A. (M. S. Rao & Co., Avenue Road, Bangalore).
- (iv) Sabdamani Darpana by Nagavarma (Kannada Academy, Shankarapur, Bangalore).
- (v) Chhandassu by Kittel (B. E. M. Book Depot, Mangalore).

**XII TEXT-BOOKS IN KANARESE AND MALAYALAM 775**  
**FOR VIDVAN TITLE EXAM., 1931.**

**UNDER REGULATION 7 B**

*Preliminary—*

- (i) Pancha Tantra Sara by M. P. Pujar (K. V. V. Sangha, Dharwar).
- (ii) Ratnakaradhishwara Sataka (from the Satakatrayi) edited by A. Santiraja Sastri, (M. L. Jain Boarding Home, Mysore).
- (iii) Bhishma nataka by D. K. Bharadwaj (Krishna & Co., Balepet, Bangalore).
- (iv) Jaimini Bharata by Lakshmisha, (story of Chandrabhasa, Chapters 28, 29, 30 & 31. M. S. & Co., Avenue Road, Bangalore).
- (v) Kelavu Sanna kathegalu by Srinivasa (M. S. Rao & Co., Avenue Road, Bangalore).

*Grammar—*

- (vi) Sabdamani Darpana by Nagavarma (B. E. M. Book Depot, Mangalore)

*Final: Poetry and Prose—*

- (i) Pampa Ramayana by Nagachandra, Chapters 1, 2 and 3 (Kannada Academy, Shankarapur, Bangalore).
- (ii) Chikadevaraya Vamsavali by Tirumalarya (Kavya Kalanidhi Office, Mysore).
- (iii) Pratima Nataka by M. Sitarama Sastri (M. S. Rao & Co., Avenue Road, Bangalore).
- (iv) Jagannatha Vijaya by Rudra Bhatta (Mysore Oriental Library Edn.), Chapters 1, 2 and 3 (Government Central Book Depot, Bangalore).
- (v) Bharateyara Itihasa by Narayana Sarma (National Education Society, Dharwar).

*Grammar, Prosody and Poetics and History of Language and Literature—*

The same as for 1930.

**MALAYALAM**

**1931**

The same as for 1930 with the following modifications:—

**7 A AND C**

*Preliminary—*

The same as those for the year 1930 except that Kirmmeera Vadham Kathakali (edited with introduction by Mr. P. Krishnan Nair—Siromani) is substituted for No. 3.

7 B

The same as those prescribed for 1930 except that "Girija-kalayanam" Kilipattu—by Unnayi Varier, (Government Press, Trivandrum) is substituted for No. 4 under Poetry.

*Final—*

*Poetry*—The same as those prescribed for the year 1930 except that "Naganandam" edited by K. Parameswaran Pillai, M.A., Lecturer in Sanskrit, Maharaja's College of Arts, Trivandrum, is substituted for "Santana Gopalam" (No. 2) and that Patapattu" No. 5 of the Trivandrum Malayalam Series Government Press, Trivandrum, is substituted for "Kuchela Vritham" (No. 8.)

*Drama—*

Mrischakatika—By Chittoor Varavoor Samu Menon and V. Narayana Menon, Malayalam Pandit, Victoria College, Palghat.

*Grammar and Rhetoric—*

The same as those prescribed for 1930.

**Munshi-i-Fazil Title Examination.**

1931

**Preliminary**

Mazamin-i-Sharar, Part IV—Geographical and His  
 Essays.

Intikhabi-Mazamini—Sir Sayyid.

Musaddasi-Hali.

Kulliyathi Akbar, Part II.

Sarmay-i-Danish by Jafari.

Q'issa-Haji Baba Asfahani—1st half.

Mardi-Khasis.

Masnayi Maulana Rumi—First half Dafter.

Nukhubul Mulah, Part IV.

**Final**

Hayathi Jawid, Part II.

Muwazana-i- Anis-wo Dabir.

Bangi Dira by Iqbal.

Intikhabi Qasaid-i-Zauq, by Shah Sulayman.

Siyahat Nameh Ibrahim Beg, 1st Volume.

Intikhabi Siyarul Muta'akhkirin—From Baber to Shah-  
 Jehan.

Payami-Mashriq, by Iqbal.

**Qasa-i-di Qa'ani-Alif and Ba.**

**Shi'rul Ajam, Parts II and V.**

**Khizinatul Fawa'id, Part II.**

**Majani-ul Adab, Volume I.**

## **Āfzal-ul-Ulama Title Examination:**

**1931**

### **Preliminary**

**Tafsir Muhammad Abduhu, Volume II.**

**Al-Mizan by Imam Sha'rani.**

**Jami'ut Tirmidhi—First half.**

**Al'Aq idatul Islamiyah.**

**Qasidatul Burdah.**

**Mu'allaqat by Imraul Qays, Tarafa and Zuhayr.**

**Al-Fakhari.**

**Usulush-Shashi.**

**Basavarun Nasiriyah—First half**

**For those who do not offer Urdu Translation:—**

**Muqqaddima-i-Ibni Khaldun—First half.**

### **Final**

**Tafsirul-Jawahir, Part I.**

**Sahi-hul-Bukhari, 1st five Ajza'.**

**Muqaddima-i-Ibni Salah.**

**Bidayathul Mujtahid by Ibni' Rushd, 1st Volume.**

**Nurul Anwar—Sunnath, Ijma' and Qiyas—**

**Maqamat-i-Hariri—First ten Maqamas.**

**Alfalsafatul 'Arabiyah wal Akhlaq.**

**Tarikhu Adabil Lughatil Arabhiyya, 1st Volume.**

**Hamasa-Babul Hamasa wal Marathi.**

**Diwani Mutanabhi-Alif and Ba.**

**Tarikhul Umamil Islamiyah by Al Khizari.**

**Al-Basairun Nasiriah—whole.**

**For those who do not offer Urdu Translation:—**

**Muqqaddima-Ibni-Khaldun—2nd half,**

**778 TEXT-BOOKS IN SANSKRIT, MARATHI, ORIYA, [APP.  
TAMIL, TELUGU AND KANARESE FOR  
EXAMNS. FOR TITLES IN ORIENTAL  
LEARNING, 1932.**

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**SANSKRIT.**

**1932.**

**SIROMANI and VIDVAN.**

For the examinations of 1932 and 1933, in all the Branches of the Siromani Course and all the Vidvan groups comprising **Sanskrit**, the books prescribed for study and those recommended are the same as those under the corresponding heads of the examinations of 1931.

**SANSKRIT AND MARATHI.**

**1932.**

The same as for 1931.

**ORIYA.**

**1932.**

The same as for 1931.

**TAMIL.**

**1932.**

**Under Regulations 7 (A) & (C) & 7 (B).**

The same as for 1931.

**Under Regulation 7 (D.)**

The same as for 1931.

**TELUGU.**

**1932**

The same as for 1931.

**KANARESE.**

**1932.**

**VIDVAN TITLE EXAMINATION.**

**Under Regulations 7 (A) & 7 (C).**

***Preliminary Examination.—***

- (1) Pampa Bharata (Vikramarjuna Vijaya)—Chapters 1 to 4, both inclusive (Government Central Book Depot, Bangalore).
- (2) Ramashwamedha by Muddana, (Kavya Kalanidhi Office, Mysore).
- (3) Venisamhara Nataka by Pandit Jayarayachar (M. S. Rao & Co., Bangalore),

**XIJ] TEXT-BOOKS IN KANARESE FOR VIDVAN TITLE 779  
EXAMINATION, 1932.**

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(4) Muddana (Secretary, Central College. Karnataka Sangha, Bangalore).

*Final Examination.—*

*Grammar, Prosody and Poetics—*

(1) Kavi Charitre (with introduction), Parts 1 and 2, by R. Narasimhacharya, M.A. (Author, Malleswaram, Bangalore).

(2) Bhasha Sastra by R. Tatacharya, M.A. (M. S. Rao & Co., Bangalore).

(3) Vyakaranopanyasa Manjari by R. Raghunatha Rao. (M. S. Rao & Co., Bangalore).

(4) Apratima Vira Charite by Tirumaliengar (Kavya Kalanidhi Office, Mysore).

(5) Chhandassu by Nagavarma, (Basel Mission Book Depot, Mangalore).

(6) Sabdamanidarpana by Kēśi Raja, (Basel Mission Book Depot, Mangalore).

(7) Sringara Ratnakara by Kavi Kama.	} Kavya Kalanidhi Office, Mysore
(8) Kavisamaya by M.A. Ramanujiengar	

**Under Regulation 7 (B.)**

*Preliminary Examination—*

(1) Yasodara Charitre by Janna, (Kavya Kalanidhi Office, Mysore).

(2) Niti Manjari by R. Narasimhacharya, M.A., Part 1, Stanzas 1—100. (Author, Malleswaram, Bangalore City).

(3) Samyaktva Koumudi by Mangarasa. Chapters 1, 2 and (Mahavir Printing Press, Belgaum).

(4) Añhiseka Nataka by Vidvan P. Sundara Sastriar (B. V. Nath & Co., Vepery, Madras).

(5) Bhisma Charitre by C. Vasudevaiya (Author, Malleswaram, Bangalore City).

*Grammar—*

(1) Halagannada Vyakarana Sutragalu (B. M. Book Depot, Mangalore).

*Final Examination.—*

*Poetry and Prose—*

1. Santi Purana by Ponna, Chapters 1 to 4, both inclusive. (People's Printing and Publishing House, Triplicane, Madras).

2. Chikadevaraja Vamsavali by Tirumaliengar. (Kavya Kalanidhi Office, Mysore).

3. Dharmamrita by Nayasena—1st Aswasa. (Government Central Depot, Bangalore).



780 **TEXT-BOOKS IN MALAYALAM FOR VIDVAN, [APP.**  
**MUNSHI-I-FAZIL AND AFZUL-UL-ULAMA**  
**TITLES EXAM., 1932.**

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4. **Sakuntala Nataka** by Basappa Sastri. (M. S. Rao & Co., Bangalore).
5. **Chandragupta Chakravarthi** by A. Venkata Rao, B.A., L.T. (People's Printing and Publishing House, Triplicane, Madras).

***Grammar, Prosody and Poetics—***

- |  |   |
|--|---|
| 1. <b>Sabdamani Darpana</b> by Kēstraja          | } B. M. Book Depot,<br>Mangalore.             |
| 2. <b>Chhandassu</b> by Nagavarma                |   |
| 3. <b>Sringara Ratnakara</b> by Kavi Kama.       | } K a v y a Kala-<br>nidhi Office,<br>Mysore. |
| 4. <b>Apratimavira Charite</b> by Tirumaliengar. |   |
| 5. <b>Kavi Samaya</b> by M. A. Ramanujiengar.    |   |

***History of Language and Literature—***

1. **Karnataka Kavi Charitre** (with introduction) by Mr. R. Narasimhacharya, Vols. 1 and 2.
2. **Bhasha Sastra** by R. Tatachar, M.A., L.T.
3. **Vyakaranopanyasa Manjari** by R. Raghunath Rao.

**MALAYALAM.**

1932.

Will be prescribed later.

**Munshi-i-Fazil Title Examination**

1932.

(Will be prescribed later).

**Afzal-ul-Ulama Title Examination**

1932.

(Will be prescribed later).

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## **APPENDIX XII**

### **EXAMINATION FOR CERTIFICATES OF PROFICIENCY IN ORIENTAL LEARNING.**

The following syllabuses, for the subjects of the **Optional** division for Certificates of Proficiency in modern methods of study as applied to Oriental Learning, have been prescribed:—

#### **I.—Syllabus in Literary Criticism as applied to Sanskrit Literature**

##### **1. The fundamentals of Sanskrit Poetics—**

- (a) Standard of literary taste.
- (b) The general characteristics of literature.
- (c) Theories of style, its kinds and relation to sense—  
(*Vritti' Riti, Sayya and Paka—*)
- (d) The doctrine of Rasa—

The theories of Rasa. The different classes of Rasa and their nature. The significance of the **Rasa doctrine in literary criticism**. The **Rasa doctrine as the central theme of the Psychology and Philosophy of literary criticism**.

- (e) Literary merits and blemishes.
- (f) Figures of speech—their literary value.

##### **2. The History of Sanskrit Poetics—**

*Pre-dhvani* schools. The development of the *Dhvani* school. The *anumāna* school. The development of figures of speech.

##### **3. The Kāvya kinds—their characteristics and development.**

##### **4. *Śravya-kavya*—**

- (a) Prose—Development of prose. Kinds of prose-style description, narration, exposition and persuasion).
- (b) Poetry—Epic-Lyric-Didactic—Satire-Elegy-Devotional poems.
- (c) Campūs.

##### **5. *Dṛśya kavya*—**

- (a) Dramatic kinds, their characteristics and development.
- (b) Conventions of the Sanskrit drama.
- (c) Principles of dramatic construction.

6. Sanskrit Metres—their bearing on literary criticism.

*N.B.*—The following books should be studied. They are not prescribed:—

1. Bain—Rhetoric and Composition (single volume book)—Longmans.

2. Crawshaw—The Interpretation of Literature—Macmillan.

3. Hudson—An introduction to the study of literature—George G. Harrap & Co., London.

4. Hass—*Daśaūpaka*—(English translation.)

5. Horowitz—Indian theatre.

The following books are recommended for consultation:—

1. Brander Matthews—A study of the drama—Longmans.

2. Butcher—Aristotle's theory of Poetry and Fine Art with text and translation of the Poetic—Macmillan.

3. Winchester—Some principles of literary criticism—Macmillan.

4. Courthope—Life in Poetry and Law in Taste.

5. Articles on *Poetry, Fine Arts and Drama* in the *Encyclopædia Britannica*.

II.—*Syllabus in Indian Philosophy in its relation to Western Philosophy*

The following books are prescribed for study:—

1. A. S. Rappoport—A Primer of Philosophy—(John Murray).

2. P. Deussen—Elements of Metaphysics—(English Trans.)

3. Max Muller—Six Systems of Philosophy.

4. A. B. Keith—Indian Logic and Atomism—Oxford University Press.

5. Deussen—The Philosophy of the Upanisads (Eng. Trans.).

6. Deussen—The system of the Vedanta.

*N.B.*—Candidates are expected to be familiar with the original philosophical texts in Sanskrit on which the above-mentioned works of Max-Muller and Deussen are based.

III.—*Syllabus for Indo-European Philology with  
special reference to Sanskrit.*

N.B.—Knowledge, accurate, so far as it goes, but neither extensive nor minutely detailed, is expected under each head.

P.I.E.=Primitive Indo-European; Ind-Ir.=Indo-Iranian; Skt.=Sanskrit; Gk.=Greek; Lat.=Latin; Teut.=Teutonic.

A. GENERAL

1. *Elementary Phonetics.*—(a) The organs of speech—production and classification of speech-sounds. Quantity: accent sentence, word, and syllable-accent. Glides.

(b) Phonetic description of all speech-sounds treated in the course, Phonetic transcription.

(c) Sound-change; isolative, conditional; defective imitation and the result of analogy; Meaning of the term 'Law' in Linguistic Science. Dialectal separation. Growth of 'literary' languages. Families of languages. Cognate words and loan words.

2. *The Indo-European Family of Languages.*—The original speech and its earliest dialectal divisions. Branches and sub-branches of the Indo-European family. Some distinguishing characteristics of the Indo-Iranian, Hellenic, Italic, and Teutonic branches.

3. *Indo-Iranian.*—The Indian Sub-Branch. Dialects of Vedic times. Epic dialects. Classical Sanskrit. Middle Indian Speeches, New Indian Speeches.

B. PHONOLOGY

4. *The P. I. E. vowel-system.*—The oldest conditions; primary vowels; changes resultant on accent; secondary vowels and syllabic liquids and nasals. Vowel-gradation, quantitative and qualitative; its relation to accent and its bearing on morphology. The later P.I.E. vowel-system prior to the period of language-separation. General treatment of the P.I.E. vowel-system in the oldest Ind-Ir., Gk., Lat. and Teut.

5. The vowel-system of Skt. in its relation to P.I.E. and to the vowel-systems mentioned in IV. Vowel-gradation in Skt.

6. *The P. I. E. Consonant system.*—Classification of the P.I.E. consonants. Earliest dialectal variations; the 'centum' and 'satam' divisions. Treatment of the P.I.E. consonants generally in Ind-Ir., Gk., Lat. and Teut.

7. Representation of the P.I.E. consonant-system in Skt. liquids and nasals. Plosive consonants. Cerebral consonants (Fortunatov's Law) Palatal and velar consonants (The Law of

palatalization). The law of aspirates (Grassman's Law). Spirants. Semi-vowels.

8. Sandhi, external and internal. Glides in Skt. Anaptyxis (Svarbhakti). Haplology.

#### C. ACCIDENCE

9. Word-formation. Base, stem and suffix. Prefix-Infix.

10. Skt. compounds, nominal and verbal.

11. Skt. Suffixes primary (krt.) and secondary (ta'ddhita).

12. *Nominal Declension*.—P.I.E. conditions. Number. Grammatical Gender. Case and case-endings. The P.I.E. case-endings. Syncretism. Contamination. Classification of noun-declensions according to suffix. Vowels and consonant-stems.

13. *The noun declensions in Skt.* treated historically and comparatively with reference to P.I.E., Gk., Lat. and Teut. Philological explanation of all case-endings. Comparison of adjectives and formation of adverbs treated philologically.

14. *Numerals*.—Philological treatment of the Skt. numerals.

15. *Pronouns and pronominal adjectives*.—The Skt. pronouns and pronominal adjectives treated philologically with reference to P.I.E., Gk., Lat. and Teut.

16. *The Verb*.—The P.I.E. verbal-system generally treated. Voice, mood, tense, augment, reduplication, personal endings. Thematic and Athematic stems. Types of verbal action.

17. The Skt. verb in its relation to the P.I.E. verbal system. Present perfect, aorist and future systems in Skt. Transfer from the athematic to the thematic class. Periphrastic formations. Analogy in the Skt. verbal-system. Derivative verbs—causative, denominative, desiderative, intensive.

18. Voices, moods and tenses in Skt. Infinitive verbal formations.

#### IV.—*South Indian Languages and Literatures in their bearing on Ancient Indian History and Culture*

(1) Candidates will be expected to show extensive study in the language of their choice whether they be Dravidian or Sanskrit.

(2) In addition, they will be expected to have studied the literature of these languages in their historical bearings.

(3) They will be further expected to have a competent knowledge of South Indian History, as in the

syllabus prescribed under the heading as above, numbered 7 in APPENDIX III (Page 593).

**V.—Syllabus for Hindu Law and Jurisprudence**

The following nine books are prescribed for study:—

**Books in Sanskrit**

1. Manu Smṛti with Kullukabhatta's Commentary (whole).
2. Yajñavalkya Smṛti with Mitakṣarā (whole).
3. Jimūtavāhana's Dāyabhāga (whole).
4. Viramitrodaya—Vyavahāra only.
5. Kautilya's Arthasāstra—To be had of Curator, Government Oriental Library, Mysore.

(1) to (4) can be had of Punjab Sanskrit Book Depot, Said Mehta Bazaar, Lahore.

**Books in English.**

6. Mayne: Hindu Law and Usage.
7. Mayne: Ancient Law.
8. Austin: Jurisprudence.
9. K. L. Sircar: The Mīmāṃsā Rules of Interpretation (Tagore Law Lectures) (Thacker Spink & Co., Calcutta).

The following three books are recommended for consultation but in no sense prescribed:—

1. Maxwell: On the Interpretation of Statutes.
2. Sidgwick: Elements of Politics.
3. Bentham: Principles of Morals and Legislation.

**V.—Syllabuses of**

- (i) *Literary Criticism as applied to Arabic.*
- (ii) *Arabian Philosophy in its relation to Western Philosophy, and*
- (iii) *Semitic Philology.*

**(1) LITERARY CRITICISM AS APPLIED TO ARABIC**

Criticism on Arabic poetry and prose In poetry will be included the pre-Islamic and the Islamic poetry.

**Books recommended for study:—**

1. Naqdush-Shir, by Qudamah b. Jafar.
2. Muwazanah bayna Abi Tammam wal-Buhturi, by Hasan Amidi.

3. Al-Umdah, by Ibn Rashid.
4. Kitabul-Aghani.
5. Literary History of the Arabs, by R. A. Nicholson.
6. History of Arabic Literature, by Clement Huart.
7. Arabian Poetry, by Sir Charles Lyall.

(ii) *ARABIAN PHILOSOPHY*

1. The Influence of Aristotle on Arabian Philosophy.
2. The Work of Syrian and Nestorian Translators under the Abbasids.
3. The Mutakallimun and the Reaction under Ghazzali.
4. Sufi-ism.

*Books recommended for study:—*

1. Works of al-Kindi and al-Farabi.
2. Ghazzali's Ihyau Ulumiddin and Tahafutul-Falasifah.
3. Ibn Rushd's Tahafutul-Falasifah.
4. Al-Milal wal-Nihal, by Al-Shahristani.
5. Al-Insanul-Kamil, by al-Jili.
6. Kashful-Mahjub, by Al-Fujwiri.
7. Al-Risalatul-Qushyriyyah, by al-Qushayri.
8. Philosophy in Islam, by de Boer.
9. Arabian Thought and Its Place in History, by O'Leary.
10. Metaphysics in Persia, by Iqbal.
11. Studies in Islamic Mysticism, by Nicholson.

(iii) *SEMITIC PHILOLOGY*

The meaning of the term Semitic. The original home of the Semitics. The dialects of the Semitic languages. Semitic writing. Semitic alphabet and the changes they undergo. Semitic vowels and consonants, and their permutations. The etymological and syntactical formations and forms in Semitic languages and the various changes and differences undergone by them. Semitic phonology. The relation of the various Semitic dialects with each other. Arabic in its relation with the non-Semitic languages.

*Books recommended for study:—*

- Al-Bayan wal-Tabyin, by al-Jahiz.
- Al-Mizhar, by Al-Suyuti.
- Al-Muarrab, by al-Jawaliqi.
- Shifaul-Ghalil, by Al-Khaffaji.
- Kitabul-Azdad, by al-Anbari.

Comparative Grammar of the Semitic Languages, by W Wright.

Oriental and Linguistic Studies, by Whitney.

# *VI. Syllabuses of*

(i) *Literary Criticism as applied to Persian and* (ii) *Indo-Persian Philology*

## (i) **LITERARY CRITICISM AS APPLIED TO PERSIAN POETRY AND PROSE LITERATURE**

Only the literature in 'Modern Persian' will have to be studied

*Books recommended for study:—*

1. Shirul-Ajam, by Shibli.
2. Khizana-i-Amirah, by Azad Bilgrami.
3. Tazkiratush-Shuara, by Dawlet Shah Samarqandi.
4. Atishkadah, by Lutf Ali Azar.
5. Studies in Islamic Poetry, by Nicholson.
6. Persian Portraits, by Arbuthnot.
7. Literary History of Persia, by Browne.

## (ii) **INDO-PERSIAN PHILOLOGY.**

The Aryan family of the world languages with special reference to the Indo-Persian branch thereof. Origin of 'Modern Persian,' its real ancestors. The relation between Avesta and Sanskrit. The various dialects of the old Iranian languages and their limits. The gradual merging of the old Avestan and Pahlavi forms and their admixture with Arabic. Persian phonology in its relation to the other Aryan and Semitic languages. The etymological and syntactical changes undergone by the Persian language comparatively as well as individually.

*Books recommended for study:—*

1. Sukhandan-i-Fars, by Azad.
2. Indo-Iranian Phonology, by Gray.
3. Avesta, Pahlavi and Ancient Persian Studies.
4. Avesta Grammar by Kanga. (Sanjana).
5. Discourses on Iranian Literature, by D. M. Madan.
6. Literary History of Persia, by Professor Browne.
7. The Authenticity of the Aryan Family of Languages—  
Pahlavi and Huzwarsheh, by Cama.



## APPENDIX XIII.

### Syllabus for the Diploma Course in French.

*First Term.*—The work will include the elements of grammar and pronunciation, the use of simple sentences and translation (seen and unseen). (One of the text-books may be read).

*Second Term.*—Grammar (continued); more advanced translation; reading of prescribed texts; conversation.

*Third Term.*—Translation (a) French-English, (b) English-French; conversation and correspondence; completion of prescribed texts; free composition.

*Text-books recommended for 1929-30.*—

Au Service de Napoleon (edition Nelson).

R. Bazin: Le Ble qui leve.

Rostand: L'Aiglon.

## APPENDIX XIV

## (1) Matriculation Examination.

Register Number	Name of Candidate.	Optional Language.	English	Second Language	Mathematics	Elementary Science	History and Geography.	Total number of marks obtained.	Whether passed or not passed.	If passed, in what class ranked.	Remarks.
			150	75	150	75	100	550			

## (2) Intermediate Examination in Arts and Science.

Register Number.	Optional subjects.	Optional subjects Group A.			Optional subjects Group B.			Optional subjects Group C.			Total number of marks obtained.	Whether passed or not passed.	If passed, in what class ranked.	Subjects, if any, in which distinction has been gained.	Remarks.
	200 English.	1	2	3	1	2	3	1	2	3					
100	Second Language.														
100															
100															
100															
100															
100															
100															
600															

## (3) B.A. Degree Examination.

(NEW REGULATIONS)

(Will be printed in the Calendar for 1930-31.)

**(4) B.A. (Honours) Degree Examination****(i) PRELIMINARY EXAMINATION.**

Register Number	Number of marks obtained. 150	Whether passed or not passed.	Remarks.
	1	Register Number	<b>(ii) FINAL EXAMINATION—OPTIONAL BRANCHES*</b>  NUMBER OF MARKS OBTAINED
450	2	Pure Mathematics	
450	3	Applied Mathematics	
450	4	Optional Subjects	
1,350	5	Total	
400	6	Logic and Psychology, or Ethics	
600	7	General Philosophy, Outlines of European Philosophy, and Outlines of Indian Philosophy	
400	8	Optional Subjects and Essay	
1,400	9	Total	
400	10	Indian History, and Constitutional History	
400	11	Politics and Economics	
400	12	Special Subjects	
200	13	Essay	
1,400	14	Total	
400	15	Economics	
400	16	Politics and Indian History	
400	17	Special Subjects	
200	18	Essay	
1,400	19	Total	

\* The numbering in these statements will come into force only from the year in which the B.Sc. (Hon.) Degree Examination will be held. For statements in force until that year see Appendix XXV.

FINAL EXAMINATION—OPTIONAL BRANCHES—continued			
NUMBER OF MARKS OBTAINED—continued			
Branch IV		Branch V	
First Language (Classical)		Second Language (Indian Vernacular)	
20	320	All papers other than Composition	
21	80	Composition	
22	320	All papers other than Additional Composition	
23	80	Additional Paper on Composition	
24	800	Total Marks	
25	500	English Language	
26	650	English Literature	
27	350	Special Period or subject	
28	1,500	Total	
29	200	Comparative Philology and Comparative Grammar	
30	600	General Part	
31	600	Special Part	
32	1,400	Total	
Branch VI			

FINAL EXAMINATION—OPTIONAL BRANCHES— <i>continued</i> .				
NUMBER OF MARKS OBTAINED— <i>continued</i>		Branch VII		
200	33	Comparative Philology and Compa- rative Grammar		
600	34	General Part		
600	35	Special Part		
1,400	36	Total		
Whether passed or not passed				
If passed, in what class ranked				
Remarks				

Register Number		(5) M. A. Degree Examination																	
		NUMBER OF MARKS OBTAINED																	
		Branch I				Branch II				Branch III-A				Branch III-B					
450	1	Pure Mathematics																	
450	2	Applied Mathematics																	
450	3	Optional subject																	
1,350	4	Total																	
400	5	Logic and Psychology, or Ethics																	
400	6	Outlines of European Philosophy and Outlines of Indian Philosophy																	
400	7	General Philosophy and Essay																	
1,200	8	Total																	
400	9	Indian History and Constitutional History																	
400	10	Politics and Economics																	
400	11	Special subjects																	
200	12	Essay																	
1,400	13	Total																	
400	14	Economics																	
400	15	Politics and Indian History																	
400	16	Special Subjects																	
200	17	Essay																	
1,400	18	Total																	







Register Number									
Branch i Mathematics		Branches ii and iii Physics or Chemistry		Branches iv, v and vi—Botany, Zoology or Geology					
1	Pure Mathematics	2	Applied Mathematics	3	Optional subject	4	Total	5	Written Examination in the main subject
450	450	400	1,300	600	600	200	1,400	700 Botany or Geo- logy	400
6	Practical Examination and laboratory note books in the main subject	7	Subsidiary subject	8	Total	9	Written Examination in the main subject	10	Practical Examination and laboratory note books in the main subject
600		200	1,400	700	400	300	300	1,700 Botany or Geo- logy	1,600
11	A subsidiary subject	12	Another subsidiary subject	13	Total				
300		300		1,600					
Whether passed or not passed									
If passed, in what class ranked									

Register Number	
Maximum Minimum ... 100 33	Whether the candidate is appearing for whole of Part I, or in one subject, under Regulation 8 of Chapter XXXVI ; if the latter, the name of subject
100 33	Agricultural Engineering
100 33	Agricultural Chemistry
100 33	Agricultural Zoology
100 33	Agricultural Botany
250 83	Agriculture, including Animal Hygiene (150) (100)
650 260	Total number of marks obtained
Whether passed or failed	
If passed, in what class ranked Class I. 420* Class II. 260 *The first class marks should be secured in one and the same examination	
If eligible for exemption under the Regulations, name of the subject in which candidate has failed	
REMARKS	
<i>Note : Regulation.</i> —A candidate who fails in not more than one subject and who obtains not less than 40 per cent of the aggregate number of marks shall be exempted from re-examination in the remaining subjects	

 (9) B.Sc. Degree in Agriculture  
PART I

Maximum Minimum ...	Register Number
300 99	Agricultural Botany
300 99	Agricultural Chemistry
450 149	Agriculture
<p>Total number of marks      ...      ...      ...      1,050</p> <p>Passing marks      ...      ...      ...      472</p>	
<p>Whether passed or failed</p>	
<p>If passed, in what class ranked</p> <p>Class I. Agriculture 297, and in total 693. Class II. 472</p>	
<p>REMARK.</p>	
<p>Note.—Candidates obtaining not less than 66 per cent of the marks in 'Agriculture' and not less than 66 per cent of the total aggregate marks shall be declared to have passed in the first class.</p>	

**(10) L.T. Degree Examination**

Passing Marks.	Register Number	Theory and Practice of Education				Total	If passed, in what class ranked
		A.B.C.	D1	D2			
		I	II	III	IV		
		100	100	100	100		
		200	35	35			
		70	200				
			80				
						400	
							First class ... 240
							Second class... 200
							Third class— The remaining successful candidates.

Subjects, if any, in which distinction has been obtained.

**(11) First Examination in Law**

Passing / Register Number Marks.	NUMBER OF MARKS OBTAINED						Whether passed or not passed	Remarks
	Jurisprudence 100	Roman Law 100	Indian Constitutional Law 70	Contracts, etc. I 100.	Contracts etc. II 100	Law of Torts, 100		
270					300		570	1st Class 342
90					100		228	2nd Class 285 3rd Class 228



## (13) M. L. Degree Examination

Register Number			NUMBER OF MARKS OBTAINED			
			Branch I		Branch II	
300	150	Jurisprudence	i			
	150	Legislation				
300	150	Roman Law—General	ii			
	150	Roman Law—Digest				
300	150	International Law—Public	iii			
	150	International Law—Private				
300	150	Constitutional Law, etc.	iv			
	150	Legal History				
1,200		Total				
300	150	Real Property—General	i			
	150	Real Property—General				
300	150	Real Property—Transfer	ii			
	150	Real Property—Transfer				
300	150	The Law of Trusts, etc.	iii			
	150	The Law of Wills, etc.				
300	150	History of the English and Indian Land Laws	iv			
	150	The Law of Easements and Profits				
1,200		Total				

**M. L. DEGREE EXAMINATION—continued.**

[illegible]

Register Number					
Appearing for whole examination or in part or subjects					
Passing Marks	Part or subjects in which exemption has been granted				
	50	100	Written ... 100	Inorganic Chemistry	NUMBER OF MARKS OBTAINED
50	100	Practical ... 50			
		Oral ... 50			
50	100	Written ... 100	Physics		
		Practical ... 50			
50	100	Oral ... 50			
		100	Written ... 100	Biology	
Practical ... 50					
Oral ... 50					
300	600	Total number of marks obtained			
Whether passed or failed					
If passed, in what class ranked— Class I ... 450   Class II ... 300					
Subjects, if any, in which distinction gained					
Subjects, if any, in which exemption now earned					
Remarks					

(14) Pre-Registration Examination



Register Number				
Appearing for part or subjects				
Pass- ing Marks	Maxi- mum	Part or subjects in which exemption has been granted		
		Written	50	Organic Chemistry
		Practical	50	
		Oral	50	
75	150	Total	150	
Whether passed or failed				

PART I

Register Number				
Appearing for part or subject				
Pass- ing Marks	Maxi- mum	Part or subjects in which exemption has been granted		
		Written	100	Physiology including Bio-Chemistry
		Practical and Oral	100	
		Written	100	Anatomy including Elements of Human Embryology
		Dissections	50	
50	100	Oral	50	Pharmaco- logy
50	100	Written	100	
50	100	Practical	50	
50	100	Oral	50	
800	600	Total in Part II		
75	150	Total in Part I		
Class I 683 Class II 376	750	Grand Total		
If passed, in what class ranked				
Subjects, if any, in which distinction gained				
Subjects, if any, in which exemption now earned				
Remarks				

PART II

(15) First M.B. &amp; B.S. Examination.

Register Number		
Appearing for whole Examination or Subjects		
Pasting Marks	Maximum	Subjects in which exemption has been granted
50	100	Written ... 100
50	100	Practical ... 50
		Oral ... 50
50	100	Written ... 100
25	50	Practical and Oral ... 50
25	50	Written ... 50
25	50	Practical and Oral ... 50
Class I 368 Class II 225	450	Total
Whether passed or failed		
If passed, in what class ranked—		
Subjects, if any, in which distinction gained		
Subjects, if any, in which exemption now earned		
Remarks		

(16) Second M.B. &amp; B.S. Examination.

NUMBER OF MARKS OBTAINED

General Pathology  
with  
Bacteriology

Hygiene

Ophthalmology

Register Number.				
Appearing for whole examination or in part or subjects				
Passing Marks.	Maxim.	Part or subjects in which exemption has been granted.		
50	100	Written	Forensic Medicine	PART I
25	50	Oral		
75	150	Total in Part I.		
Whether passed or failed in Part I				
50	100	Written ... 100	Medicine	PART II.
100	200	Clinical ... 150		
		Oral ... 50		
50	100	Written ... 100	Surgery	
75	150	Clinical ... 150		
50	100	Oral ... 50		
		Operative Surgery ... 50		
50	100	Written ... 100	Obstetrics and Gynecology	
50	100	Clinical, Practical and Oral. 100		
125	150	Total in Part II		
Whether passed or failed in Part II.				
Class I 750 Class II 500	Grand total—1000.			
If passed, in what class ranked				
Subjects in which distinction gained				
Subjects in which exemption now earned				
Remarks				

## (18) Diploma in Midwifery (D.G.O.)

Passing Marks	Register number	NUMBER OF MARKS OBTAINED				Whether passed or failed	Remarks
		Midwifery	Gynaecology and Diseases of a New Born Child	Midwifery and Gynae- cology	Total		
		Written 100	Written 100	Clinical and Oral 100	300		
		50	50	50	150		

## (19) B.S.Sc., Part I Examination

Register Number.	Marks obtained in					
	Physics and Chemistry in relation to Public Health & Climatology & Meteorology.			Bacteriology.		Medical Entomology and Parasitology.
	Written ...	Practical ...	Oral ...	Written ...	Practical ...	Oral ...
	Maximum 100 100 50	Maximum 100 100 50	Maximum 100 100 50	Maximum 100 100 50	Maximum 100 100 50	Maximum 100 100 50
	Pass marks 125	Pass marks 125	Pass marks 125	Pass marks 125	Pass marks 125	Pass marks 125
Total	...	...	...	...	...	750
Passing Marks	...	...	...	...	...	375
Whether passed or failed.						
If failed, the evidence of further study required						
Remarks.						

## (19) B.S.Sc., Part II Examination

Register Number.	Marks obtained in					
	Principles and Practice of Public Health.		Epidemiology and Infectious Diseases		Sanitary Law and Vital Statistics.	
	Written ...	Oral ...	Written ...	Practical ...	Written ...	Oral ...
	Maximum 100 50	Maximum 100 50 50	Maximum 100 50 50	Maximum 100 50	Maximum 100 50	Maximum 100 50
	Pass marks 75	Pass marks 100	Pass marks 100	Pass marks 75	Pass marks 75	Pass marks 75
	Practical ...		Public Health Administration.			
Total in Part II	...	...	...	...	...	650
Total in Part I	...	...	...	...	...	750
Grand Total	...	...	...	...	...	1,400
Class I	...	...	...	...	...	...
Class II	...	...	...	...	...	...
Whether passed or failed.						
If passed, in what class ranked.						
Subject, if any, in which distinction has been gained.						
Remarks						

## (20) First Examination in Engineering

Register Number	NUMBER OF MARKS OBTAINED											Whether passed or failed	Order of Merit	Remarks	
	Mathe- matics		Science		Science Applied		Elementary Mechanics	Geometrical Drawing	Machine Drawing	Building Drawing	Elementary Practical Surveying				Total number of marks obtained
	Pure	Applied	Chemistry	Physics											
150	150	100	100	100	100	100	100	100	100	100	Max. 1,000 Min. 500				

## (21) B.E. Degree Examination.

## CIVIL BRANCH

Register Number		NUMBER OF MARKS OBTAINED			
		Mathe- matics	Applied Mechanics	Con- struction	Hydraulic Engineer- ing.
100	Calculus				
100	Applied Mathematics				
100			I		
100			II		
100			I		
100			II		
100			I		
100			II		
100	Surveying				
100	Surveying Field work				
100			I		
100			II		
100	Estimating				
100	Laboratory Test				
100	Engineering Laboratory Note book and <i>viva voce</i>				
1st Class, 1000 2nd Class 750	Total marks obtained 1,500				
Whether passed or failed					
If passed, in what class ranked					
Remarks					

## (21) B.E. Degree Examination.

## MECHANICAL BRANCH

Register Number		NUMBER OF MARKS OBTAINED	
100	Calculus		
100	Applied Mathematics		
100	I		
100	II		
100	Mechanism and Sub-head (1)		
100	Sub-head (2)		
100	Sub-heads (3) & (4)		
100	Sub-head (5)		
100	Sub-head (6)		
100	Electrical Engineering		
100	I		
100	II		
100	Laboratory Test		
100	Workshop Test		
100	Engineering Laboratory Note books and <i>viva voce</i>		
1st class 1000 2nd class 750	Total marks obtained 1,500		
Whether passed or failed			
If passed, in what class ranked			
Remarks.			



## (22) Oriental Titles Examination

## SIROMANI

## PRELIMINARY

Register Number	Special Branch Selected	NUMBER OF MARKS OBTAINED				Whether passed or not passed
		Prescribed Text-books, General i	Prescribed Text-books, General ii	Prescribed Text-books, Special i	Prescribed Text-books, Special ii	
		200	200	150	150	Total 700 Passing Marks 280

## SIROMANI

## FINAL

Register Number	Special Branch Selected	NUMBER OF MARKS OBTAINED				Whether passed or not passed	If passed, in what class ranked
		History of Sanskrit Language and Literature.	Prescribed Texts, Special i	Prescribed Texts, Special ii	Prescribed Texts, Special iii		
		200	200	200	200	Total 800 Passing Marks First class ... 480 Second " ... 400 Third " ... 320	

## Oriental Titles Examination

VIDVAN  
PRELIMINARY

Register Number	Languages selected	If two Dravidian Languages are offered, the Languages selected for the Preliminary Examination	NUMBER OF MARKS OBTAINED				Whether passed or not passed
			Prescribed Vernacular Text-books	Vernacular Composition	Where Sanskrit is taken Prescribed Sanskrit Text-books	Where Sanskrit is not taken Prescribed Vernacular Text-books	
			200	200	300	200	Total 700 600 Passing Marks 280 240

## VIDVAN

## FINAL

Register Number	Languages selected	If two Dravidian Languages are selected, the Language offered for the Final Examination	NUMBER OF MARKS OBTAINED						Whether passed or not passed	If passed, in what class ranked
			Where Sanskrit is taken	Where Sanskrit is not taken	Prescribed Vernacular Text-books	Prescribed Vernacular Text-books	Composition	Total 600 First class Second " Third " ... 360 300 240		
			Prescribed Sanskrit Text-book History of Sanskrit Language and Literature	200	200	200	200	200		

# Oriental Titles Examination

## VIDVAN—PRELIMINARY

FOR PART B IN REG. 7 OF CHAPTER XLI.

Register Number	Languages selected	NUMBER OF MARKS OBTAINED				Whether passed or not passed	Remarks
		Prescribed Text-books I	Prescribed Text-books II	Composition	<div> <div>Total Marks 600</div> <div>Passing Marks 240</div> </div> <div> <div>Sanskrit Text-books and Translation</div> <div>100</div> </div>		
		175	175	150			

## VIDVAN—FINAL

FOR PART B IN REG. 7 OF CHAPTER XLI

Register Number	Languages selected	NUMBER OF MARKS OBTAINED				Whether passed or not passed	Remarks
		Prescribed Text-books I	Prescribed Text-books II	History of Language and Literature	<div> <div>Total Marks 600</div> <div>Passing Marks</div> </div> <div> <div>First class ... 360</div> <div>Second class ... 300</div> <div>Third class ... 240</div> </div>		
		175	175	150	100		



## Oriental Titles Examination

**AFZAL-UL-ULAMA**

## PRELIMINARY

Whether passed or not passed	NUMBER OF MARKS OBTAINED	
	Total 600	Passing Marks 240
	Translation from Arabic into Urdu and vice versa	100
	History	100
	Poetry Text-books	100
	Prose Text-books	100
	Fiqh, Aqaid and Mantiq	100
	Tafsir and Hadith	100

## AFZAL-UL-ULAMA

## FINAL

NUMBER OF MARKS OBTAINED	
Whether passed or not passed	
Total 800	Passing Marks
First class	480
Second class	400
Third class	320
Composition in Arabic	100
Mantiq and Balaghath	100
Translation from Arabic into Urdu and vice versa	100
History	100
Poetry Text-books	100
Prose Text-books	100
Fiqh and 'Usul-ul Fiqh	100
Tafsir, Hadith and 'Ilm-ul Hadith	100
Register Number	

## Oriental Titles Examination.

MUNSHI-I-FAZIL

PRELIMINARY

Whether passed or not passed.	NUMBER OF MARKS OBTAINED					
	Total 600 Passing Marks 240	Arabic Text-books	Composition in Persian	Translation from Urdu into Persian	Translation from Persian into Urdu	Urdu Text-books
		100	100	100	100	100
Register Number						

MUNSHI-I-FAZIL

FINAL

If passed, in what class ranked	Whether passed or not passed	NUMBER OF MARKS OBTAINED					
		Total 700 Passing Marks	First class	Second "	Third "	Composition in Persian	Arabic Text-books
		420	...	350	...	100	100
		280	...	...	...	100	100
						100	100
						100	100
						100	100
						100	100
						100	100
						100	100
Register Number							

## APPENDIX XV.

FORMS OF APPLICATION FOR REGISTRATION  
FOR EXAMINATIONS

i

## MATRICULATION

Name	English	
	Vernacular	
Age and date of birth		
Name and occupation of father or guardian		
Race (i.e., nation, tribe, etc.)		
Religion		
Address		
High school from which candidate appears		
Where to be examined		
Second language		
Year or years, if any, in which the candidate has already appeared for the examination and the place of examination in each year		
Signature and certificate of Principal or Head Master		<p>I hereby certify that the name and date of birth of the candidate as entered in this application have been verified by me, and I have found them to agree with those given in the school admission register</p> <p>Signature.....</p>

## (ii)

## INTERMEDIATE EXAMINATION IN ARTS AND SCIENCE

Name	English			
	Vernacular			
Age and date of birth				
Name and occupation of father or guardian				
Race ( <i>i e.</i> , nation, tribe, etc.)			Religion	
Address				
How Matriculated and in which year				
College or Colleges at which candidate has studied and time at each				
The Part or Parts for which the candidate appears				
*Year or years, if any, in which the candidate has already appeared for the examination; centre of examination and register number of the respective year should be stated		Year		Centre
		Part I		
		Part II		
		Part III		
			Reg. No.	



**Candidates are requested to fill in the columns  
below very carefully**

**(a) Information required from candidates appearing for the whole Examination**

Language selected under  
Part II

Optional subjects selected under Part III

**\*(b) Information required from candidates appearing for Part I only ;  
year or years of passing Parts II and III, Register numbers and the  
language selected under Part II and the optional subjects selected under  
Part III**

**\*(c) Information required from candidates appearing for Part II only**

Language selected under  
Part II

Year or years of passing Parts I and  
III—Register numbers, and the  
Optional subjects selected under  
Part III

**\*(d) Information required from candidates appearing for Part III only**

Optional subjects selected

Year or years of passing Parts I and  
II, Register numbers and the lan-  
guage under Part II

Signature and certificate of Principal of College in which candidate is  
attending at date of application.

I hereby certify that the name and date of birth of the candidate as en-  
tered in this application have been verified by me, and I have found them  
to agree with those given in his Secondary School Leaving Certificate.

*Signature.....*

*Date.....*

*Signature of candidate.....*

(11)

**B. A DEGREE EXAMINATION]**  
**(New Regulations)**

**(Will be printed in the Calendar for 1930-31),**

iv

## B.A. (HONOURS)

## PRELIMINARY

Name	English Vernacular
Age and date of birth	
Name and occupation of father or guardian	
Race ( <i>i.e.</i> , nation, tribe, etc.)	
Religion	
Address	
Date of passing the Intermediate Examination in Arts	
College at which candidate has studied for this Examination	Time
Year or years, if any, in which the candidate has already appeared for the examination and the place of examination in each year	
Whether Nineteenth Century Prose or English History is offered	
Signature of Principal of College which candidate is attending at date of application	

## B.A. (HONOURS)

## FINAL

Name	English Vernacular
Age and date of birth	
Name and occupation of father or guardian	
Race ( <i>i.e.</i> , nation, tribe, etc.)	
Religion	
Address	
Date of passing the Intermediate Examination in Arts	
Date of passing the Preliminary Examination	
College or colleges at which candidate has studied for this part of the examination and time at each	Time
Branch, and optional subjects, if any, selected under that Branch (if Branch VI, what languages)	
Signature of Principal of College which candidate is attending at date of application	

## M. A. DEGREE EXAMINATION

Name	English Vernacular
Age and date of birth	
Name and occupation of father or guardian	
Race (i.e., nation, tribe, etc.)	
Religion	
Address	
Date of passing the B. A. Degree Examination	
Date of receiving the B. A. Degree	
Present position or occupation	
Branch and Optional subjects, if any, selected under that Branch (if Branch is whether Psychology or Ethics is selected; if Branch iv, what languages)	

## B.Sc. &amp; B.Sc. (HONOURS) DEGREE EXAMINATION

## PART I—ENGLISH

Name	English Vernacular
Age and date of birth	
Name and occupation of father or guardian	
Race (i.e., nation, tribe etc.)	
Religion	
Address	
Date of passing the Intermediate Examination in Arts and Science	
College at which candidate has studied for this examination	
Year or years, if any, in which the candidate has already appeared for the examination and the place of examination in each year	
Signature of Principal of College which candidate is attending at date of application	

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## B.Sc. DEGREE EXAMINATION

## PART II

English Name	English
Vernacular	Vernacular
Age and date of birth	
Name and occupation of father or guardian	
Race (i.e., nation, tribe, etc.)   Religion	
Address	
Date of passing the Intermediate Examination in Arts and Science	
Date of passing Part I	
College or colleges at which candidate has studied for this part of the examination and cal order time at each	Colleges in Time
Branch and optional subjects, if any, selected under that Branch	
Year or years, if any, in which the candidate has already appeared for the examination and the place of examination in each year	
Signature of Principal of College which candidate is attending at date of application	

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## B. SC. (HONOURS) DEGREE EXAMINATION

## PART II

English Name	English
Vernacular	Vernacular
Age and date of birth	
Name and occupation of father or guardian	
Race (i.e., nation, tribe, etc.)	
Religion	
Address	
Date of passing the Intermediate Examination in Arts and Science or the B.A., or B.Sc Degree Examination	
Date of passing Part I	
Whether the candidate has previously passed the Subsidiary subjects; if so, the year of passing and the register number	
College or colleges at which candidate has studied for this part of the examination and time at each	Time
Branch and optional subjects, if any, selected under that Branch. If Branch iv, v or vi, state Main and Subsidiary subjects	
Signature of Principal of College which candidate is attending at date of application	

## DEGREE OF MASTER OF SCIENCE.

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*Note.*—Three copies of the thesis and the prescribed certificates and treasury receipt for Rs. 100 should accompany the application, which should reach the Registrar after the *1st November* and not later than *1st December* each year.

Name	English Vernacular		
Age and date of birth			
Name and occupation of father or guardian			
Race (i.e., Nation, Tribe, etc.)		Religion	
Address			
Year of passing the B.Sc. (Honours) or B.A. (Honours) or M.A. in a science subject, or B.Sc., or B.A. in a science subject in this University and the year in which the degree was taken.		(The original diploma should be forwarded with the application).	
Distinctions gained, such as prizes or medals			
If the Examination passed is of any other University details should be given about its recognition by the Syndicate (state here the number and date of the order)			
Name of the College or the Research Institute in which the candidate has worked, the number of years he has worked, and the name of the Professor or other person who supervised his work and gave directions.		(A certificate from the Professor or Director should also be produced.)	
The name of the subject of the thesis.		(A statement to the effect that the subject on which the thesis has been written is his original work, duly countersigned by the Professor, should also be sent.)	

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DEGREE OF DOCTOR OF PHILOSOPHY  
SCIENCE

To be forwarded together with three copies of the thesis to the Registrar so as to reach him after the 1st November and not later than the 1st December of the year.

Name	English	
	Vernacular	
Age and date of birth		
Race ( <i>i.e.</i> , Nation, Tribe, etc).		Religion
Address		
Year of passing the B.A. (Honours) or M.A. or M.Sc. Degree Examination, of this University		(The Original Diploma should be forwarded with the application)
Date and year of the Convocation at which the Degree of B.A. (Honours) or M.A. or M.Sc., was taken		
The Special Subject within the purview of the Regulations for the B.A. (Honours) or M.A. or M.Sc. Degree upon a knowledge of which he now rests his qualifications		
Number of years during which he has worked at it as a research student, or otherwise.		
Whether the thesis has been published by him already.		
Whether any papers on his research work other than the present thesis have been contributed by him, and if so, whether copies have been attached.		

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## B.Sc. DEGREE IN AGRICULTURE

Name	English		
	Vernacular		
Age and date of birth			
Name and occupation of father or guardian			
Race (i.e. nation, tribe, etc.)		Religion	
Address			
Date of passing the Intermediate Examination in Arts and Science			
College or colleges at which candidate has studied, and time at each		Colleges	Time
The Part or Parts in which candidate proposes to appear			
If the candidate is not required to appear in any of the subjects comprising Part I the date of passing those subjects should be stated			
If the candidate has already passed in either Part, the date of passing and the Part passed should be noted			
Occasions, if any, on which the candidate previously appeared for the Examination			
Signature of Principal of College which candidate is attending at date of application			

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. I.T.

Name	English Vernacular
Age and date of birth	
Name and occupation of father or guardian	
Race (i.e., nation, tribe, etc.)	
Religion	
Address	
University degree, and Date of graduation	
Training College where candidate has studied	
Year or years, if any, of previous appearance	
Optional subject in (i) (D) (2) either (a) Child Education (b) Mathematics, (c) Physical Science, (d) Natural Science, (e) History, (f) Geography, (g) One language other than English and (h) Domestic Science	
Signature of Principal of College which candidate is attending at date of application	

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## FIRST EXAMINATION IN LAW

Name	English Vernacular
Age and date of birth	
Name and occupation of father or guardian	
Race (i.e., nation, tribe, etc.)	
Religion	
Address	
Date of passing the B. A. Degree Examination	
Law College or colleges at which candidate has studied for the examination, and time at each	Time Colleges in chronological order
Year or years, if any, of previous appearance	
Present position or occupation	
Signature of Principal of College which candidate is attending at date of application	



xiv

B.L.

Name	English
	Vernacular
Age and date of birth	
Name and occupation of father or guardian	
Race (i.e., nation, tribe, etc.)	
Religion	
Address	
Date of passing the First Examination in Law	
Law College or colleges at which candidate has studied after completing and receiving the certificate for the course prescribed for the First Examination in Law, and time at each	Time
	Colleges in chronological order
Year or years, if any, of previous appearance	
Year of taking B. A. Degree	
Present position or occupation	
Signature of Principal of College which candidate is attending at date of application	

xv

M. L.

Name	English
	Vernacular
Age and date of birth	
Name and occupation of father or guardian	
Race (i.e., nation, tribe etc.)	
Religion	
Address	
Date of receiving the B. L. Degree	
College or colleges (if any) at which candidate has prosecuted his legal studies, and time at each.	
Present position or occupation	
Branch	

xvi

PRE-REGISTRATION EXAMINATION, JUNE 192 DECEMBER

*The examination will ordinarily commence on the 1st June and on 1st December.*

Name	English	
	Vernacular	
Age and date of Birth		
Name and occupation of father or guardian.		
Race (i.e., Nation, Tribe, etc.)		Religion
Address		
Date of passing the Intermediate or B.A. Degree Examination		
College or colleges at which candidate has studied Chemistry, Physics and Biology for the Pre-Registration Examination and time at each		
Subjects in which the candidate has obtained exemption under the Regulations		
Occasions, if any, on which the candidate previously appeared for the Examination		
Signature of Principal of College which candidate is attending at date of application		

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**FIRST M.B. & B.S. EXAMINATION, JUNE 192 .  
DECEMBER**

*The examination will ordinarily commence on the 1st June and on  
1st December*

Name	English	
	Vernacular	
Age and date of Birth		
Name and occupation of father or guardian		
Race (i.e., Nation, Tribe, etc.)		Religion
Address		
Date of passing the Pre-Registration Examination		
College or colleges at which candidate has prosecuted his medical studies since passing the Pre-Registration Examination and time at each		
The Part or Parts in which the candidate proposes now to appear. If the candidate is not required to appear in Part I the date of passing in that Part		
If appearing for Part II only, the subjects in which he has obtained exemption (and the date of such exemption)		
If appearing for the whole examination, the subjects in which he has obtained exemption (and the date of such exemption) occasions, if any, on which the candidate previously appeared for the Examination		
Signature of Principal of College which candidate is attending at date of application		

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SECOND M. B. & B. S. EXAMINATION, JUNE 192  
DECEMBER

*The examination will ordinarily commence on 1st June  
and on 1st December*

Name	English		
	Vernacular		
Age and date of birth			
Name and occupation of father or guardian			
Race (i. e., Nation, Tribe, etc.)		Religion	
Address			
Date of passing the First Examination			
College or colleges at which candidate has prosecuted his medical studies since passing the First M.B. & B.S. or L.M. & S. Examination, and time at each			
Occasions, if any, on which the candidate previously appeared for the Examination			
Subject in which the candidate has obtained exemption under the Regulations			
Signature of Principal of College which candidate is attending at date of application			

Date.....

Signature.....

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FINAL M. B. & B. S. DEGREE EXAMINATION, JUNE  
DECEMBER 192 .

*The examination will ordinarily commence on 1st June  
and on 1st December.*

Name	English	
	Vernacular	
Age and date of birth		
Name and occupation of father or guardian		
Race (i. e., Nation, Tribe, etc.)		Religion
Address		
Date of passing the Second M.B. & B.S. Examination		
College or colleges at which candidate has prosecuted his medical studies since passing the Second M. B. & B. S. Examination and time at each		
The Part or Parts in which the candidate proposes now to appear. If the candidate is not required to appear in Part I, the date of passing in that Part. If appearing for Part I only, the subject in which he has obtained exemption (and the date of such exemption)		
If appearing for Part II only, the subjects in which he has obtained exemption (and the date of such exemption)		
If appearing for the whole examination, the subjects in which he has obtained exemption (and the date of such exemption)		
Occasions, if any, on which the candidate previously appeared for the Examination		
Signature of Principal of College which candidate is attending at date of application		

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## DIPLOMA IN MIDWIFERY (D.G.O.)

Name	English	
	Vernacular	
Age and date of birth		
Race (i.e.,) Nation, Tribe, etc.		
Religion		
Address		
Date of passing the M.B. & B. S., L.M. & S., or any accepted Examination		
Hospital or Hospitals for Women and Children at which candidate has undergone the course subsequent to passing the prescribed medical examination and time at each		
Occasions, if any, on which the candidate previously appeared for the examination		
Present position or occupation		
Signature of Superintendent of Hospital which candidate is attending at date of application		

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## B.S.Sc.—Part I

Name	English Vernacular
Age and date of birth	
Name and occupation of father or guardian	
Race ( <i>i.e.</i> , nation, tribe, etc.)	
Religion	
Address	
Date of obtaining the M.B. & B.S. or L.M. & S. or other accepted degree	
College or colleges at which candidate has studied after graduation in Medicine and time at each	
Occasions, if any, on which the candidate previously appeared for Part I of the examination	
Present position or occupation	

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## B.S.Sc.—Part II

Name	English Vernacular
Age and date of birth	
Name and occupation of father or guardian	
Race ( <i>i.e.</i> , nation, tribe, etc.)	
Religion	
Address	
Date of obtaining the M.B. & B.S. or L.M. & S. or other accepted degree	
College or colleges at which candidate has studied in Medicine and time at each	
Date on which candidate passed, or proposes to appear for Part I of the examination	
Occasions, if any, on which the candidate previously appeared for Part II of the examination	
Present position or occupation	

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## M. D.

Name	English Vernacular
Age and date of birth	
Name and occupation of father or guardian	
Race ( <i>i.e.</i> , nation, tribe, etc.)	
Religion	
Address	
Date of passing the M. B. & B.S. Degree Examination, and the class in which he was placed	
Period during which candidate has been engaged in the practice of the Medical profession or in hospital practice subsequently to qualifying for M. B. & B.S. Degree	
Branch in which the candidate proposes to appear	
Branch or Branches in which the candidate previously appeared and the dates of each appearance	
Present position or occupation	

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M.B.

Name	English Vernacular
Age and date of birth	
Name and occupation of father or guardian	
Race (i.e., nation, tribe, etc.)	
Religion	
Address	
Date of passing the M.B. & B.S. Degree Examination, and the class in which he was placed	
Period during which candidate has been engaged in the practice of the Medical profession or in hospital practice subsequently to qualifying for M.B. & B.S. Degree	
The special subject in which the candidate proposes to appear	
The occasions, if any, on which the candidate previously appeared for the examination	
Present position or occupation	

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## FIRST EXAMINATION IN ENGINEERING

Name	English Vernacular
Age and date of birth	
Name and occupation of father or guardian	
Race (i.e., nation, tribe, etc.)	
Religion	
Address	
Date of passing the Intermediate Examination in Arts	
College or colleges at which candidate has studied since passing the Intermediate Examination in Arts and time at each	
Present position or occupation	
Signature of Principal of College which candidate is attending at date of application	

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B.E.

Name	English Vernacular
Age and date of birth	
Name and occupation of father or guardian	
Race (i.e., nation, tribe, etc.)	
Religion	
Address	
Date of passing the First Examination in Engineering	
College or colleges at which candidate has studied since completing the course for the First Examination in Engineering, and time at each	
Whether candidate appears in the Civil Branch or the Mechanical Branch	
Present position or occupation	
Signature of Principal of College which candidate is attending at date of application	



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## ORIENTAL TITLES EXAMINATION

## PRELIMINARY

Name	English
	Vernacular
Age and date of birth	
Name and occupation of father or guardian	
Race (i.e., nation, tribe, etc.)	Religion
Address	
Approved institution from which candidate appears	
Where to be examined	
Year or years, if any, and place or places at which candidate has already appeared for the examination	
The title for which he is a candidate; if Siromani, the special branch offered; if Vidvan, the languages selected	
Signature of Principal of approved institution	

## FINAL

Name	English
	Vernacular
Age and date of birth	
Name and occupation of father or guardian	
Race (i.e., nation, tribe, etc.)	Religion
Address	
Approved institution from which candidate appears	
Where to be examined	
Year or years, if any, and place or places at which candidate has already appeared for the examination	
The title for which he is a candidate; if Siromani, the special branch offered; if Vidvan, the languages selected	
Date of passing the Preliminary examination. If candidate for Vidvan taking two Dravidian Languages, language in which he has passed the Preliminary examination	
Signature of Principal of approved institution	

**EXAMINATION FOR CERTIFICATES OF PROFICIENCY  
IN MODERN METHODS OF STUDY AS APPLIED TO  
ORIENTAL LEARNING**

<b>Name</b>	<b>English</b>
	<b>Vernacular</b>
<b>Age and date of birth</b>	
<b>Name and occupation of father or guardian</b>	
<b>Race (i.e., nation, tribe, etc.)</b>	<b>Religion</b>
<b>Address</b>	
<b>Approved Institution from which candidate appears</b>	
<b>Where to be examined</b>	
<b>Date of passing the Preliminary examination for titles</b>	
<b>Whether candidate has passed the Final examination for titles; if so, the year of passing</b>	
<b>Optional subject offered</b>	
<b>Optional subject, if any, in which candidate has already passed, and date of passing</b>	
<b>Signature of Principal of approved institution</b>	

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**EXAMINATION FOR DIPLOMA IN ECONOMICS**

<b>Name</b>	<b>English</b>
	<b>Vernacular</b>
<b>Age and date of birth</b>	
<b>Name and occupation of father or guardian</b>	
<b>Race (i.e., nation, tribe, etc.)</b>	
<b>Religion</b>	
<b>Address</b>	
<b>Period for which candidate has attended the prescribed course of study</b>	
<b>Where to be examined</b>	
<b>Examination, if any, passed by the candidate, and the year of passing</b>	
<b>Special subject offered for the examination</b>	
<b>Year of years, if any, in which the candidate already appeared for the examination and the place of examination in each year</b>	
<b>Signature of the Professor of Indian Economics under whose supervision candidate has been following the course of study prescribed</b>	

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EXAMINATION FOR THE DIPLOMA IN EUROPEAN  
LANGUAGES; 19 .

*The Examination will be held at Madras on \_\_\_\_\_*

Name	English		
	Vernacular		
Age and date of birth			
Name and occupation of father or guardian			
Race (i.e., Nation, Tribe, etc.)		Religion	
Address			
Period for which candidate has attended the prescribed course of study			
Examination, if any, passed at the University ; if so, the year and the place of examination should be stated.			
Language offered for the Examination			
Year or years, if any, in which the candidate already appeared for the examination			
Signature of the Professor under whose supervision candidate has been following the course of study prescribed			

*Date* \_\_\_\_\_

*Signature of Candidate* \_\_\_\_\_

## APPENDIX XVI

APPLICATION FOR EXEMPTION FROM THE PRODUCTION  
OF ATTENDANCE CERTIFICATES REQUIRED BY THE  
REGULATIONS FOR ADMISSION TO THE MATRICULATION  
EXAMINATION, 192.

Name	
Age and date of birth	
Position or occupation	
Address in full	
The reason for non-attendance at a recognized High School during the preceding school year	
Extent and duration of instruction received (to be given in full detail)	
Names and qualifications of Teachers	

## FORM OF CERTIFICATE.

*I recommend that.....who, to my knowledge has been educated privately during the previous three years or in schools outside the territorial limits of the Madras University, or who holds a completed Secondary School Leaving Certificate issued under the authority of the Government of Madras or such other authority as may have been accepted by the Syndicate and who has appeared for the Final Examination qualifying for such certificate, at least three years prior to the date of the next examination, be admitted to the ensuing Matriculation Examination. I know him to be of good character and have satisfied myself that he has received suitable instruction and that he is qualified to enter upon a University course.*

*Signature.....*

*Designation.....*

1. Candidates must be careful in entering their age. Those who can give the exact date of their birth should enter the day of the month on which, and the year in which, they were born. Those who are unable to give this information must enter the number of years and the number of calendar months they completed on the date of application.

2. The application must reach the Registrar before the 1st October preceding the examination at which the applicant wishes to appear. The application will be considered by the Syndicate, and the result communicated to the applicant.

*N.B.*—Applicants are warned against paying their examination fee before receiving an order of exemption from the production of the prescribed attendance certificate; for, if paid, the fee will not be refunded. Should the exemption order not reach the applicant until after the 20th December the fee will be received by money order.

**APPLICATION FOR EXEMPTION FROM THE PRODUCTION  
OF ATTENDANCE CERTIFICATES REQUIRED BY THE  
REGULATIONS FOR ADMISSION TO THE.....EXAMINATION****MARCH**  
**SEPTEMBER** 193 .

Name	
Position or Occupation	
Address in full	
School in which he is employed. By which of the authorities noted overleaf [Rule 1 (i)] is it recognised ?	
The period or periods of his un- broken service in the school as a Teacher <i>after</i> qualifying for the Teachers' Training certificate.	
Date of passing the S. S. L. C. Matriculation or Intermediate Examination, whether he has been placed on the S. S. L. C. eligible list, if he passed the S. S. L. C. Examination.	
Date of passing the Higher Ele- mentary Teachers' Training Examination, or the Teachers' Secondary Grade Certificate Examination.	

<p>Examination for which he proposes to appear ; if Matriculation Examination, the Second Language which he proposes to offer for the Examination, if Intermediate, the Language under Part I-B, and the Group under Part II, if Group III the subjects offered ; if B.A. the Group he proposes to take under Part II, should be stated.</p>	
<p>Particulars of original certificates obtained.</p>	

Date.....

Signature of Applicant.....

# DECLARATION BY APPLICANT.

I hereby declare that I have adopted teaching as my profession, and that I have been in service as a trained certificated teacher for not less than three years on the date of this application.

Signature.....

# CERTIFICATE FROM THE MANAGEMENT OF THE INSTITUTION IN WHICH APPLICANT IS WORKING AS A TEACHER.

I hereby certify that..... is employed as a teacher in..... School, and that he has the permission of the Management to appear for the..... Examination.

Signature.....

Date.....

Designation.....

**APPLICATION FOR EXEMPTION FROM THE PRODUCTION OF  
ATTENDANCE CERTIFICATES REQUIRED BY CANDIDATES  
FOR THE ORIENTAL TITLE EXAMINATIONS.**

*(To be forwarded so as to reach the Registrar, before the 1st October  
preceding the examination)*

Name of the applicant.	English	
	Vernacular	
Age and date of birth		
Present occupation, if any, or address		
Name and address of the parent or guardian.		
Examination for which exemption is applied, and the title for which he proposes to be a candidate; if Siromani—the Special Branch—and if Vidvan—the languages offered. (Candidates should state whether it is Preliminary or Final or both, and the languages proposed to be taken, either co-ordinate or main and subsidiary.)		
Whether the candidate has passed any examination, e.g. Matriculation or Intermediate or B.A., or Sanskrit Entrance Test or any Oriental Title Examination, and the year of passing the examination. (State also the register number and centre of examination)		

Station.....

Date.....

Signature of applicant.....

**CERTIFICATE FOR EXEMPTION**

I hereby certify that, to the best of my knowledge and belief.....  
.....will have completed his twenty-fifth year before the date of the next Oriental Title Examination, and that he is qualified by his attainments to appear for the examination

(This certificate should be signed by a member of the Board of Studies or by the head of an approved O. T. Institution dealing with the subject or language offered for the examination, or by a Mahamahopadhyaya or a Shamsul-ul-Ulama.)

Station.....

Date.....

Signature.....

Designation.....

## APPENDIX XVII

FORM OF APPLICATION FOR UNIVERSITY  
RESEARCH STUDENTSHIPS*(To be forwarded to the Registrar so as to reach him not later than  
the 1st July.)*

1. Name	English	
	Vernacular	
2. Age and date of birth		
3. Name and occupation of father or guardian		
4. Race (i.e., nation, tribe, etc.)		
5. Religion		
6. Address		
7. Examination passed by candidate rendering him eligible for a studentship under Statute 4 of Ch. XXIII		
8. Date of passing the Examination		
9. If an Examination in Arts, specify the group or branch in which it was passed		
10. Class gained, and position in the class in the Examination passed		
11. Subject proposed by candidate for investigation, or general nature of research proposed		
12. Place at which the investigation or research is to be made		
13. Name and designation of the person from whom permission to undertake the investigation or research has been obtained		
14. Signature and designation of some person competent and willing to make periodic report to the Syndicate on the progress of the candidate		



**APPENDIX XVIII****FORM OF APPLICATION FOR REGISTRATION  
OF GRADUATES**

Name in full (as entered in diploma). Change of name, if any, recognised by the University should also be entered			
Father's name			
Race (nation, tribe, etc)		Religion	
Year or years at which the candidate qualified for the degree or degrees		Year or years of Convocation at which the Degree or Degrees were taken	
Present occupation and Postal address			
Whether Treasury or Bank receipt towards the registration fee has been attached			

**APPENDICES XIX & XX****Combined Time-tables and Scheme of Examinations  
for the B. A. Degree Examination**

(NEW REGULATIONS)

**and B. Sc. Degree Examination**

(Will be printed in the Calendar for 1980-81).

## APPENDIX XXI.

### \*INTERMEDIATE EXAMINATION IN ARTS AND SCIENCE

REGULATIONS WHICH WERE IN FORCE PRIOR TO 1927-28.

1. Matriculates proceeding to a degree shall, for two years, each consisting of three terms  
**Courses of Study** ordinarily consecutive, undergo in an affiliated college courses of study in—

**Part I-A. English Language and Literature.**  
**English**

For this course books in English prose and poetry shall be set.

In setting these books, two objects shall be kept in view—

(a) the improvement of the students' knowledge of the English Language and of its Literature; (b) the development, by training them to read with ease and discrimination, of their ability to extend the range of their knowledge.

The course of study shall consist in—

(1) The detailed study of certain of the set books.

(2) The perusal, as distinct from detailed study, of the other set books.

Certain of the set books which are to be studied in detail may be retained from year to year.

The books which are not to be studied in detail shall be prescribed every year. The books prescribed or retained in any year shall not (a) for detailed study be more than a play of Shakespeare, about 1,250 lines of additional verse, and two prose books and (b) for perusal be more than three books. The books prescribed shall be of the same average length and difficulty from year to year.

\*Examinations under these regulations will be held to the end of 1931.

(3) Such instruction and exercises in rhetoric and composition as may be expected to develop the students' powers of understanding English and writing it clearly, concisely, and correctly. This instruction should include the following topics:—

The paragraph as the unit of prose composition. The sentence as a constituent portion of the paragraph. The period and the loose sentence. Unity, balance and emphasis in relation to paragraph and sentence. Logical sequence of sentences and paragraphs and explicit references to preceding paragraphs, as securing coherence in an essay.

Part I-B. Composition in one of the following vernaculars (Tamil, Telugu, Malayalam, Kanarese, Marathi, Oriya, Urdu, Sinhalese, Burmese, Hindi), or translation into English from one of the Classical and Foreign Languages named in Regulation 6 of Chapter XXI of Vol. I of the Calendar for 1926-27.

In each of the vernaculars above mentioned certain books shall be prescribed from time to time for non-detailed study.

**Optional groups** Part II. One of the following optional groups:—

- i. (a) Mathematics, (b) Physics, (c) Chemistry.
- ii. (a) Natural Science, (b) Physics, (c) Chemistry.
- iii. Any three of the following subjects :—

(a) Ancient History, (b) Modern History, (c) Indian History, (d) Logic, (e) A classical Language, (f) A second Classical Language or one of the Foreign or Indian Vernacular Languages mentioned in Regulation 6 of chapter XXI of Vol. I of the Calendar for 1926-27.

2. Any candidate who has been admitted to the Intermediate Examination in both parts in the same year and has obtained the minimum number of marks prescribed in Regulation 5 of this Chapter in one part but has failed to secure the prescribed minimum in the other part shall be required to appear again for examination only

**Candidates failing in one Part only**

in the part in which he has so failed, and shall not be required to appear for the part in which he has secured the necessary number of marks.

3. A candidate shall be declared to have passed the examination on his obtaining in each part of the examination not less than the minimum number of marks prescribed for that part by Regulation 5 of this Chapter provided that he obtained such marks on the last occasion on which he presented himself for examination in such part.

**Candidates passing by Parts**      **Subjects for examinations**      4. A candidate shall be examined in—

#### Part I-A. English Language and Literature.

There shall be four papers on English Language and Literature. The first paper shall be on the books of poetry set for detailed study. The second paper shall be on the books of prose set for detailed study. The third paper shall consist of subjects for composition drawn from the subject matter of the other set books, and the number of subjects set shall be larger than the number the candidate is required to attempt. The fourth paper shall be on composition and shall contain exercises designed to test the candidate's power to apply the principles studied in the course, and among these exercises may be the expansion of concisely expressed ideas or of matter sketched in brief outline, writing short essays in accordance with a scheme (provided), and epitomizing fairly long passages of prose or poetry. The papers in the examination shall be so set that candidates shall be able to get full marks in the examination without answering questions on matters relating to purely literary criticism or scholarship.

Part I-B. Composition in one of the following vernaculars (Tamil, Telugu, Malayalam, Kanarese, Marathi, Oriya, Urdu, Sinhalese and Burmese), or translation into English from one of the Classical and Foreign Languages named in Regulation 6 of Chapter XXI of Vol. I of the Calendar for 1926-27.

There shall be one paper in composition in which the candidate will be required to write two short essays

on subjects set at the examination. The paper shall contain three essay subjects one of which shall be taken from text-books prescribed for non-detailed study in English and the other two shall be taken from text-books prescribed for non-detailed study in the vernaculars.

Part II. One of the following groups at the option of the candidate, two papers to be set in each division of each group:—

i. (a) MATHEMATICS, (b) PHYSICS, (c) CHEMISTRY

(a) *Mathematics*

In addition to the subjects prescribed for the Matriculation, the course shall comprise Algebra, Plane Trigonometry and Geometry. A candidate shall be required to be acquainted with the use of logarithmic tables and to be able to solve questions by graphic methods, and to have an experimental knowledge of the simple geometrical solids and their sections.

(a) *Algebra*.—Algebraical laws and principles and their applications. Ratio and proportion. Theory of indices. Variation. Simple surds. Equivalence of system of equations. Solution of equations of the second degree in one or two variables and of equations of higher degree whose solution depends on them. Theory of the equation and expression of the second degree in one variable. The three progressions and other series whose summation depends on arithmetical and geometrical series. Interest and Annuities. Permutations and Combinations. The Binomial theorem for a positive integral exponent and direct applications of the theorem for any exponent. Elementary theory of logarithms and their applications to arithmetical composition. Problems on the above.

(b) *Plane Trigonometry*.—Measurement of Angles. Trigonometrical functions and their relations to one another. Solution of simple trigonometrical equations. Addition, multiplication and division formulæ. Properties of triangles and of the circles connected with them. Solution of triangles. Application of logarithms to trigonometrical computations. Measurements of heights and distances.

(c) *Geometry—Experimental.*—Construction of scales and their use. Construction of similar figures. Construction of the circumscribed, inscribed, escribed and other associated circles of triangles, and polygons. Constructions from data of triangles, quadrilaterals and polygons and their division in any given ratio. Areas of polygons and problems relating thereto.

*Theoretical.*—Ratio and proportion. Similar figures. Concurrence and collinearity. Properties of triangles. Properties of circles. Loci. Elementary Maxima and Minima. Proofs of the constructions in *Experimental Geometry*. Easy deductions.

(b) *Physics*

No question shall be asked which cannot be answered by simple mathematical methods.

The course shall include a more detailed study of the matter included in the Matriculation syllabus and in addition the following:—

*Dynamics.*—The units of length and time. Displacement, speed, velocity and acceleration of a particle moving in a straight line. Newton's laws of motion; the units of mass and force. Motion of a particle in a straight line under the action of a force in that line and in a vertical plane under the action of gravity. Energy, work, power and their units: simple illustrations of the conservation of energy.

Conditions of an equilibrium of a body under three concurrent forces (the parallelogram law), and under parallel forces. Centre of gravity. Simple machines.

\*The motion of a simple pendulum; determination of  $g$ .

*Hydrostatics.*—Pressure at a point in a fluid; definition and illustrations, transmissibility of pressure. Evaluation of pressure at a point in a heavy fluid at rest; its uniformity in all directions. Resultant thrust in simple cases. The principle of Archimedes, floating bodies,

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\* Only experimental proofs are required in this case.

hydrometers. Applications to practical determination of density and specific gravity. The pressure of a gas and its determination; the barometer. Boyle's Law; air pumps and water pumps.

*Heat.*—Temperature and its measurement; the construction and graduation of thermometers. The thermal expansion of solids, liquids and gases and their accurate determination; the air thermometer. Heat as a quantity; the unit of heat, specific heat and the more direct methods of calorimetry, Laws of fusion, evaporation and ebullition; latent heat. Vapour pressure and how it is measured. Conduction and convection of heat; thermal conductivity. Radiation; absorption and reflection; law of cooling. The dynamical equivalent of heat; the conservation of energy.

*Light.*—The experimental facts and laws of transmission, reflection and refraction of light; simple geometrical deductions from these, applicable to small direct pencils incident on plane and spherical surfaces. Applications to the lens, telescope, microscope. The dispersion of light; the spectroscope. Radiation and absorption spectra. Total reflection. Determination of refractive indices.

*Magnetism.*—Properties of magnets; poles. Laws of magnetic force; unit poles. Lines of force; uniform magnetic fields and experimental methods of comparing them. The earth's magnetic field; the compass. Magnetic induction; the magnetic properties of iron and steel.

*Electricity.*—Electrified bodies; electric quantity. Conductors and insulators. Distribution of electricity on conductors. Induction. Laws of force between quantities of electricity. Lines of electrostatic force; the electric field. Electric force and electric potential; difference of potential.

The more common forms of voltaic cells and the actions that go on in the cells while producing a current. The action of currents on magnets; galvanometers depending on such action including suspended coil type. Metallic conductors and electrolytes; laws of electrolysis. Electromotive force; Ohm's Law; resistance and the simpler

methods of determining it. Distribution of energy in circuit by current and heating effects. Electromagnets.

*Sound.*—The production and propagation of sound; the velocity of sound in air and its determination. Nature of wave motion and sound waves. Frequency of vibration; pitch. Amplitude of vibration; loudness. Laws of vibration of strings and air columns. The reflection of sounds; echoes.

(c) *Chemistry*

The course shall include a more detailed study of the matter included in the Matriculation syllabus and in addition the following:—

The laws of chemical combination by weight and by volume. Atomic theory; symbols and their use. Equivalents. Atomic weights. Molecular weights. Avogadro's hypothesis and relation of gas density to molecular weight. Chemical equations and calculations; nomenclature.

A general knowledge of the properties of the elements and of the chief types of their compounds with a view to their classification.

The ordinary methods of preparation, and the chief properties of the following elements and their principal compounds:—

Hydrogen, oxygen, the halogens, sulphur, nitrogen, phosphorus, arsenic, boron, carbon and silicon.

Chief sources, preparation and properties of the common metals, viz., sodium, potassium (ammonium), silver, mercury, lead, copper, zinc, antimony, bismuth, magnesium, calcium barium, aluminium, iron, manganese, chromium, tin, and the preparation and properties of their oxides, hydroxides and their salts with the more common negative radicals.



ii. (a) NATURAL SCIENCE, (b) PHYSICS, (c) CHEMISTRY

(a) *Elementary Botany and Elementary Zoology  
including Physiology.*

The course shall consist of—

- (1) Elementary Botany.
- (2) Elementary Zoology, including some knowledge of the structure and functions of human body.

**Botany.**

- (1) The main external features, mode of life and place in nature of the following:—Bacteria, Fungi, Algae, Lichens, Mosses, Ferns and flowering plants.
- (2) The general form and structure, as seen with a hand lens, of the following parts:—Root, stem, leaf, inflorescence, flower, fruit and seed, and the meaning of 'homology' with regard to modifications of these. (Illustrative examples may be selected from the Natural Orders, etc., named below). A knowledge of the terms used in describing flowering plants in any fairly recent text-book on Indian Botany.
- (3) The work of the root, stem, leaf, and flower, including the main facts concerning the absorption of food and water, transpiration, respiration, metabolism, the storage of food reserves, **growth**, reaction to light and gravity, pollination, fertilization, and the germination of seeds. Candidates will be expected to show that they have studied these experimentally in living plants either personally or in class demonstration.
- (4) The nature, occurrence and function of epidermis, root-hairs, stomata, perenchyma, vascular bundles, sieve-tubes, fibres, vessels, ancambium, so far as is required to understand the physiology of paragraph 3.

- (5) The principal characteristics of the following orders and tribes as exemplified in South India:—

Anomaceæ, Malvaceæ, Rhamneæ, Papilionaceæ, Cæsalpinieæ, Mimoseæ, Myrtaceæ, Rubiaceæ, Compositæ Convolvulaceæ, Acanthaceæ, Labiatæ, Euphorbiaceæ, Palmeæ, Musaceæ.

Candidates will not be examined in the use of the microscope, but it is expected that teachers will use the microscope freely for purposes of demonstration.

### *Zoology and Physiology.*

The chief characters of living organisms. Protoplasm Cell. Plants and animals, how they agree and how they differ. Meaning of the terms biology, morphology and physiology. The structure of the following animals treated in a very elementary manner, with general reference to their physiology:—Amœba, Paramœcium, Obelia, Earthworm. Outline of their reproduction.

(In the study of the organisms mentioned above, it is not intended that the students should do microscopical work, but it is expected that the teachers will use the microscope freely for purposes of demonstration.)

A more detailed study of the external characters, and of the general arrangement and relations of the chief internal organs, as revealed by dissection, in the cockroach, the frog, and the rabbit. General outline of their life-history.

The human skeleton and its parts. The arrangement of the chief viscera in man. The leading facts of human physiology treated in an elementary way. The nature of food and the manner in which it is digested and absorbed. Glands. The work of the liver. The nature and functions of the blood. The heart and the circulation. Respiration. Waste products and their removal. The temperature of the body and how it is maintained. The action of muscles. The chief functions of the central nervous system, nerves and sensory organs.

Candidates will be expected to be able to make simple diagrams to show the arrangement or general features of the chief organs and structures in the animals enumerated in the syllabus. A knowledge of minute structure requiring the use of the microscope will not, except in the case of *Amœba*, *Paramœcium*, *Obelia*, and the blood, be required.

(b) *Physics* as in i (b)

(c) *Chemistry* as in i (c).

(a) ANCIENT HISTORY, (b) MODERN HISTORY, (c) INDIAN HISTORY, (d) LOGIC, (e) A CLASSICAL LANGUAGE (f) A SECOND CLASSICAL OR OTHER LANGUAGE.

(a) *Ancient History.*

- (1) Greek History down to the death of Alexander the Great.
- (2) Roman History down to the death of Augustus.

(b) *Modern History.*

The History of Great Britain and Ireland, political and economic.

A knowledge of Geography shall be required from the candidates in both (a) and (b).

(c) *Indian History.\**

The first paper shall deal with Ancient and Mediaeval Indian History down to 1526 A.D., and the second paper shall deal with Indian History from 1526 A.D., to the present day.

(d) *Logic.*

Scope of Logic. Laws of Thought. Terms. Formal Division and Definition. Predicables. Propositions and their import. Forms of Immediate Inference.

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\*No syllabus is prescribed. Vincent Smith's larger work (the *Oxford History of India*) may be considered to indicate the scope of the subject.

Syllogism and other varieties of Deductive Reasoning. Trains of Reasoning. Functions of Syllogism. Inductive inference. Postulate of Induction. Induction and Analogy. The relation of Deduction to Induction.

Theory of Scientific Method. Observation and Experiment. Hypothesis. Empirical and Causal laws. Forms of Explanation. Elimination of Chance. Scientific Definition and Classification. Nomenclature and Terminology. Fallacies.

(e) *A Classical Language.*

The first paper shall relate to the prescribed text-books and to grammar, and shall consist partly of passages for translation from the text-books, partly of questions on idiom and grammar, and partly of questions on the subject-matter of the text-books. The second paper shall consist of a simple piece of English prose for translation into the selected language, and a passage or passages not contained in the text-books for translation into English.

(f) *A Second Classical Language or Other Language.*

In the case of classical and foreign languages the papers shall be as in iii (e).

In the case of the Indian vernacular languages the first paper shall consist of questions on the text-books and on the grammar and idiom of the language, and the second shall consist of translation from and into the Vernaculars.

**Marks qualifying for a pass.** 5. A candidate shall be declared to have passed the examination if he obtains not less than—

(1) thirty-five per cent. of the total marks in English under Part I-A;

(2) forty per cent. of the marks in composition in a vernacular or translation under Part I-B;

(3) thirty-five per cent. in each of the divisions of the optional groups under Part II.

All other candidates shall be deemed to have failed in the examination.

Out of candidates who pass in both Parts in the same year those who obtain not less than fifty per cent. of the total number of marks shall be placed in the first class and those who obtain less than fifty per cent. of the total number of marks shall be placed in the second class.

**Classification of successful candidates**

Candidates who pass in both Parts in the same year and obtain not less than sixty per cent. in English or in any division of an optional group shall be noted as having gained distinction in that subject.

Candidates who obtain the prescribed minimum number of marks in each part in separate years and are declared to have passed the examination under Regulation 3 of this Chapter shall be placed in a separate list in the second class.

#### (1) DETAILED SYLLABUS IN THEORETICAL GEOMETRY.

*N.B.—The order in which the theorems are stated in this Syllabus is not imposed as the sequence of their treatment.*

*Ratio and Proportion.*—Definition and elementary theorems connecting the antecedents and consequents.

A given straight line can be divided internally in a given ratio at one, and only one point; and externally at one, and only point.

A straight line drawn parallel to one side of a triangle cuts the other two sides, or those sides produced, proportionally; and the converse.

If the vertical angle of a triangle is bisected internally or externally, the bisector divides the base internally or externally into segments which have the same ratio as the other sides of the triangle; and the converse.

In equal circles, angles, whether at the centres or circumferences, have the same ratio as the arcs on which they stand.

Triangles and parallelograms of equal altitude are to one another as their bases.

If two triangles have one angle of the one equal to one angle of the other, their areas are proportional to the rectangles contained by the sides about the equal angles. Similarly for parallelograms having one angle of the one equal to one angle of the other.

*Similar figures.*—If two triangles are equiangular their corresponding sides are proportional; and the converse.

If two triangles have one angle of the one equal to one angle of the other and the sides about these equal angles proportional, the triangles are similar.

Two triangles are similar, if the sides of the one are respectively parallel or perpendicular to the sides of the other.

If two triangles have two sides of the one proportional to two sides of the other, and an angle in each opposite one corresponding pair of these sides equal, the angles opposite the other pair are either equal or supplementary.

If from the right angle A of a right angled triangle ABC, AD is drawn perpendicular to BC, then (1) AD is the mean proportional between BD and DC, (2) BA is the mean proportional between BD and BC and (3) CA is a mean proportional between CB and CD.

If two triangles are similar, their corresponding lines (such as medians, altitudes, inradii, etc.,) are to one another in the ratio of their corresponding sides.

Similar triangles are to one another as the squares on their corresponding sides.

Two similar polygons can be divided into the same number of triangles similar to each other and similarly placed; and the converse.

The perimeters of two similar polygons are to each other as any corresponding sides.

Areas of similar polygons are proportional to the squares on corresponding sides.

*Concurrence and Collinearity.*—The use of signs as applied to lines, angles and areas. If two parallel lines are cut by three or more concurrent transversals, the corresponding segments are proportional; and the converse.

If X, Y, Z are points in the sides BC, CA, AB of a triangle ABC, such that the perpendiculars to those sides at these points are concurrent, then

$$(BX^2 - XC^2) + (CY^2 - YA^2) + (AZ^2 - ZB^2) = 0$$

or

$$BX^2 - CY^2 + AZ^2 = C^2 - ZB^2 + AY^2;$$

and the converse.

If any transversal meets the sides BC, CA, AB of a triangle in D, E, F,

$$AF \cdot BD, CE = AE \cdot CD, BF;$$

and conversely, if three points D, E, F, taken on the sides BC, CA, AB of a triangle, satisfy the relation  $AF \cdot BD, CE = AE \cdot CD, BF$  then D, E, F, are collinear.

If the lines joining any point to the vertices A, B, C of a triangle meet the opposite sides in D, E, F;

then  $AF, BD, CE = FB, DC, EA$ ;

and conversely, if three points D, E, F, taken on the sides BC, CA, AB of a triangle, satisfy the relation  $AF, BD, CE = FB, DC, EA$ , then AD, BE, CF are concurrent.

If two unequal similar figures are similarly placed, the lines joining the vertices of one to the corresponding vertices of the other are concurrent.

*Properties of Triangles.*—The three medians of a triangle meet in a point, and this point is a point of trisection of each median, and also of the line joining the circumcentre to the orthocentre.

If D is a point in the side BC of a triangle ABC such that  $BD = \frac{1}{n} BC$ , then

$$(n-1) AB^2 + AC^2 = n AD^2 + (1 - \frac{1}{n}) BC^2.$$

The perpendiculars from the vertices of a triangle on the opposite sides meet in a point, and the distance of each vertex from the orthocentre is twice the perpendicular distance of the circumcentre from the side opposite to that vertex.

The circle through the middle points of the sides of a triangle passes also through the feet of the perpendiculars of the triangle and through the middle points of the three lines joining the orthocentre to the vertices of the triangle.

If a perpendicular drawn from the vertex to the base of a triangle is produced to meet the circumcircle, then the distance of this point of intersection from the base is equal to the distance of the orthocentre of the triangle from the base.

The fact of the perpendiculars drawn on the sides of a triangle from any point P on the circumcircle of that triangle are collinear.

The pedal line of P bisects the line joining P to the orthocentre of the triangle.

If the vertical angle of a triangle is bisected by a straight line which cuts the base, the rectangle contained by the sides of the triangle is equal to the rectangle contained by the segments of the base together with the square on the straight line which bisects the angle.

If from the vertical angle of a triangle a straight line is drawn perpendicular to the base, the rectangle contained by the sides of the triangle is equal to the rectangle contained by the perpendicular and the diameter of the circle described about the triangle.

*Properties of Circles.*—The locus of the points of intersection of tangents drawn at the extremities of chords of a circle which pass through a fixed point, is a straight line.

If the polar of A passes through B, then the polar of B passes through A.

If P and Q are any two points in the plane of a circle whose centre is O, then OP bears to OQ the same ratio as the perpendicular from P on the polar of Q bears to the perpendicular from Q on the polar of P.

The locus of points from which the tangents to two given co-planer circles are equal is a line perpendicular to the line of centres.

In two circles, if any two parallel radii are drawn (one in each circle), the straight line joining their extremities cuts the line of centres in one or other of two fixed points (called centres of similitude).

If through a centre of similitude S of two circles, a line is drawn cutting the circles, the radii to a pair of corresponding points are parallel.

If through a centre of similitude S of two circles, a line is drawn cutting the circles, then the rectangle under the distances of one pair of non-corresponding points from S is equal to the rectangle under the distances of the other pair of non-corresponding points from S; and each of these rectangles is constant.

In a cyclic quadrilateral the rectangle contained by the diagonals is equal to the sum of the rectangles contained by the opposite sides.

*Loci.*—If from a fixed point O a variable line is drawn, and in it points P, Q are taken, so that the ratio of OP to OQ is constant then (1) if P moves along a straight line, the locus of Q is a parallel straight line; (2) if P moves along the circumference of a circle, the locus of Q is a circle.

The locus of a point which is such that the rectangle under its distances from the equal sides of an isosceles triangle is equal to the square on its distance from the third side, is the circle which touches equal sides at the extremities of the third side.

If A, B are fixed points, and P a variable point, such that the ratio of PA to PB is one of constant inequality, then the locus of Q is a circle.

Given the base and vertical angle of a triangle, find the locus of its (1) incentre, (2) orthocentre, (3) centroid, (4) excentres.

If a triangle ABC of given species has one corner A fixed, another B always on a fixed line or circle, then the locus of C will be a line or circle.



*Elementary Maxima and Minima.*—When two sides of a triangle are given in length, the area of the triangle is greatest when they are placed at right angles.

The maximum triangle which can be inscribed in a given segment of a circle is that formed by joining the middle point of its arc to the extremities of its chord.

If A, B are two fixed points, and XY a fixed line; then for that point P in XY at which AP, BP make equal angles with XY.

(1)  $AP + PB$  is minimum, if A, B are on the same sides of XY.

(2)  $AP + BP$  is maximum, if A, B are on opposite sides of XY.

If A, B are fixed points and P any point in a fixed line, the angle APB will be maximum, when the circle APB touches the fixed line.

Of all triangles having the same base and equal area the isosceles triangle has the minimum of perimeter.

The maximum of isoperimeter triangles on the same base is the one whose other two sides are equal.

Of all polygons having all sides given but, one, the maximum can be inscribed in a semi-circle having the undetermined side as diameter.

Of all isoperimetric polygons of the same number of sides, the equilateral is the maximum.

If P is any point in a given straight line AB, AP, PB is maximum and  $AP^2 + PB^2$  is minimum when P is the middle point of AB; of all rectangles, of given area, the square has the minimum perimeter.

The maximum parallelogram which can be inscribed in a triangle by drawing parallels to two of its sides, is that formed by drawing the parallels from the middle point of the third side.

## (2) PRACTICAL PHYSICS AND CHEMISTRY FOR THE INTERMEDIATE COURSE.

*The following scheme is not exhaustive, but is intended to indicate the general nature and extent of the Courses of Instruction in Practical Physics and Chemistry for the Intermediate Examination in Arts:*

### I. Course of Instruction in Practical Physics—

Length, measurements by millimeter scale, vernier, micrometer gauge and spherometer.

Determination of areas and volumes by measurement of linear dimensions.

Verification of conditions of equilibrium of a body under coplanar forces.

Determination of the centre of gravity of a plate.

Verification of the law of a simple pendulum; determination of  $g$ .

The inclined plane; systems of pulleys.

Use of balance, sensitive to  $\cdot 01$  gram.

Determination of volumes by weighing in water; determination of capacities of vessels.

Specific gravities of solids and liquids; use of hydrometer.

Reading Fortin's barometer and correcting for temperature.

Verification of Boyle's laws.

Determination of fixed point of the thermometer.

Determination of co-efficient of expansion of a rod.

Determination of co-efficient of apparent expansion of a liquid.

Expansion of air at constant pressure.

The constant volume gas thermometer.

Curves of cooling; melting points.

Determination of specific heats of solids and liquids.

Latent heat of water and steam.

Determination of vapour pressures; boiling points.

Use of Regnault's (or Dines') and wet and dry bulb hydrometers.

Comparison of thermal conductivities.

Radiation of heat from different surfaces.

Verification of Laws of reflexion.

Tracing the path of a ray of light through a block of glass and deduction of refractive index.

Focal lengths of concave mirrors and convex lenses.

Arrangement of two lenses for telescope, microscope and lantern.

Measurement by spectrometer of the angle of a prism, and the refractive index for sodium light.

Use of simple photometers.

Tracing the lines of force in a magnetic field.

Comparison of magnetic moments.

Comparison of strength of magnetic field by vibration.

Study of the simple cell, the Daniell and Leclanche cells.

Absolute measure of current (i) by tangent galvanometer,  
(ii) by electrolysis.

Measurement of heat developed by current.

Measurement of resistance of wires.

Comparison of electromotive forces, the potentiometer.

Verification of laws of transverse vibration of strings.

Determination of velocity of sound by resonance.

## II. Course of Instruction in Practical Chemistry—

The practical instruction in Chemistry in the Intermediate Course shall be on modern lines, such as are indicated in Dr. Alex. Smith's Experimental Inorganic Chemistry.

Tables, such as Clarke's Mathematical and Physical Tables (published by Oliver and Boyd, Edinburgh), are recommended for use by students undergoing the Intermediate Courses of Study in Physical Science.

## TEXT-BOOKS FOR THE INTERMEDIATE EXAMINATIONS, 1929, 1930 AND 1931.

*(Under the old Regulations.)*

### PART I-A—ENGLISH.

1929.

#### *Detailed Study—*

##### *Poetry—*

Shakespeare: Henry V.

Wordsworth: Michael, Laodamia.

Tennyson: Oenone, Lotus Eaters; Ulysses.

Byron: The Isles of Greece.

##### *Prose—*

Goldsmith's Essays Nos. 1, 2, 6, 11, 12, 14, 16, 24, 27, 30, 38 and 40 in the Selections edited by A. L. Sleight, M.A., (Harrap & Co.).

*Note.*—No. 1. In Westminster Abbey.

" 2. A Visit to the Theatre.

6. Describes an Author's Club.

- „ 11. Introduces Beau Tibbs.
- „ 12. Mrs. Tibbs and Household.
- „ 14. A Party at Vauxhall Gardens.
- „ 16. Beau Tibbs and the Coronation.
- „ 24. The Character of the English Nation.
- „ 27. On Doctors.
- „ 30. On little great men.
- „ 38. Specimen of a Magazine in Miniature.
- „ 40. Adventures of a strolling Player.

Mrs. Gaskell's Cranford.

*Non-Detailed study—*

Scott: Quentin Durward (the whole book).

A second Round of Tales. (Oxford University Press).

1930

*Detailed Study—*

*Poetry—*

Shakespeare: Henry V.

Tennyson: Morte D'Arthur.

Byron: Mazappa's Ride.

W. Cory: A Ballad for a Boy.

Sir Edwin Arnold: A Rajput Nurse.

W. C. Monkhouse: The Night Express.

Sir Walter Scott: Flodden.

Browning: Pheidippides.

Kipling: The Ballad of Clampherdown.

Published in "Poems of Action",  
Second series,  
Edited by Collins and Treble,  
Oxford, 1926.

*Prose—*

A Shorter Boswell; edited by John Bailey. (Thomas Nelson & Sons, Ltd.).

English Essays: Edited by Elizabeth D'Oyley. (Edward Arnold & Co.), (omitting the Essays of Lamb and Hazlitt, the selection from "The Times" in Section V, A. H. Sidgwick in Section VI, and the last four Essays in Section VII).

*Non-Detailed study—*

Stevenson: Treasure Island.

The Roll Call of Honour by 'Q' (Thomas Nelson and Sons).

Rudyard Kipling: The Second Jungle Book (Macmillan).

1931

**Poetry—**

Shakespeare: Twelfth Night. Byron: Mazeppa's Ride. Sir Edwin Arnold: A Rajput Nurse. W. Cory: A Ballad for a Boy. W. C. Monkhouse: The Night Express. Browning: Pheidippides. Sir W. Scott: Flodden. Tennyson: Morte d'Arthur. Kipling: The Ballad of Clampheddown.	}	Published in Poems of Action, Second Series, Edited by Collins and Tre- ble, Oxford.
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**Prose—**

A Shorter Boswell—Edited by John Baily—Thomas Nelson & Sons.

Essays and Essayists—Edited by Henry Newbolt—Nelson & Sons. The selections from Steele, Addison, Goldsmith, Lamb, Stevenson, Mary Coleridge, Hilaire Belloc and Edward Thomas.

**Non-detailed Study—**

Historical Tales from Shakespeare by A. T. Quiller-Couch—Edward Arnold & Co.

Dickens—A tale of Two Cities, Edited by C. H. Russell—Macmillan & Co.

**PHYSICS AND CHEMISTRY**

1929, 1930 &amp; 1931.

**PART II.****GROUPS (i) and (ii).****PHYSICS:**

Rintoul, D.: Introduction to Practical Physics (Macmillan)

Watson, W.: Elementary Practical Physics (Longmans).

Schuster and Lees: Intermediate Course of Practical Physics (Macmillan).

Crowther, J. A.: Manual of Physics (Oxford University Press).

Glazebrook: Hydrostatics, Light and Heat (Cambridge University Press).

Hadley: Magnetism and Electricity for Beginners (Macmillan).

Sanderson: Electricity and Magnetism (Macmillan).

*Reference—*

- Duncan and Starling: Text-book of Physics (Macmillan).  
Brown, S. E.: Sound (Cambridge University Press).  
Krishnaswami, T. S.: Sound (Murthi Brothers).

**CHEMISTRY—**

- Smith: Experimental Inorganic Chemistry (Bell).  
Senter: Text-book of Inorganic Chemistry (Methuan).

*Reference—*

- Smith: Introduction to Inorganic Chemistry (Bell).  
Holmyard, E. J.: Inorganic Chemistry (Edward Arnold).

**NATURAL SCIENCE.****PART II.****GROUP (II).****Botany.**

1929, 1930 & 1931.

**Books recommended—**

- Thoday: Botany for Senior Students (Cambridge University Press).  
P. F. Fyson: Botany for India.  
K. Rangachari: Manual of Elementary Botany for India.  
K. Rangachari: A Handbook of Botany for India.  
Dickson: Practical Plant Biology.  
Tansley: Elementary Biology.  
Gager: Fundamentals of Botany.

**Zoology and Physiology**

1929, 1930 & 1931.

- G. C. Bourne: Comparative Anatomy of Animals, two volumes.  
Huxley (revised by Barcroft): Lessons in Elementary Physiology.  
Bainbridge and Menzies: Essentials of Physiology (Longmans Green & Co.).  
Parker and Bhatia: An elementary text-book of Zoology for Indian Students.  
Hegner—Introduction to Zoology (Macmillan & Co., New York).

**LOGIC**

1929, 1930 & 1931.

**GROUP (iii).**

As a further indication of the scope and standard of the Intermediate Course, Creighton's "Introductory Logic," Parts I and II, is recommended as a suitable text-book.

**SANSKRIT**

1929, 1930 & 1931.

Bhāraṇī—Kīrātārjuniya, Cantos 1, 2 and 3.

Bhasa—Svapnavasavadatta—Edited by Mahamahopadhyaya T. Ganapati Sastriyar, Trivandrum.

Kadambari Samgraha, from page 47, line 5, to page 93, line 5, second edition (to be had of M.R.Ry. R. V. Krishnamachariyar, Government College, Kumbakonam).

**MARATHI**

1929, 1930 & 1931.

**PART I-B.**

Srī Rāmacaritra by C. V. Vaidya, M.A., LL.B.

Vāgnmaya Vishayaka Nibandh, Part I, Pages 1—115 (Latest Edition), (Chitra Shala Press, Poona City).

**PART II.**

**GROUP (iii).**

Navanita—Vaman (all extracts of Vaman Pandit), pages 88—143.

Moropant—Kekāvali.

Padya Ratnavali, by Krishna Shastri Chiplunkar.

Tārā Nītak, by V. M. Mahajani, M.A.

Vivita Kartavya by Nabar, B.A., LL.B., (Parachure Puranick & Co., Mithav Bāg, Bombay).

**ORIYA.**

1929, 1930 & 1931.

**PART I-B.**

Pranaya Prabava by Ramachandra Acharya.

Bagavati Durga, by Krupasindhu Misra,

**PART II.**  
**GROUP (iii).**

Tapaswini by Gangādhara Meher.  
Vikramorvashi, by Mrutyunjaya Rath.  
Bai Mahanty Panji, by Gopalachandra Praharaj.

**LATIN**  
**1930**  
**PART II**  
**GROUP (iii).**

Virgil: Aeneid Book VI.  
Cicero: Second Philippic.  
Sallust: Jugurtha (Chapters I—62).

**1931**  
Virgil: Aeneid VI.  
Cicero: Speeches against Catiline, I-IV.  
Livy: History, XXII.

**FRENCH**  
**1930**  
**PART II.**  
**GROUP (iii).**

Lamartine: Jeanne D'Arc.  
Racine: Britannicus.  
Molière: L'Avare.  
Erckmann—Chatrian: Waterloo (Macmillan).

**1931.**  
Racine: Britannicus (first three Acts only).  
Molière: L'Avare.  
Feuillet: Le Roman d'un Jeune Homme Pauvre.

**Poetry—**

Selection by A. Watson Bain (Macmillan), Seniors, Nos.  
101-120.



**URDU.****PART I-B.**

1929.

Tahira.

Alfaruq, Part I.

**PART II.**

Tarikhul-ummat, Part III.

Nazmi-Azad.

Intikhabi-Makhyzan, Part III.

1930 &amp; 1931.

**PART I-B.**

Juya-i-Haq, Part II.

Sanjug.

**PART II.**

Nayrang-i-Khiyal by Azad, Part I.

Intikhabi-i-Zarrin.

Tarikhul-Ummat, Part III.

**ARABIC AND PERSIAN.**

1929, 1930 &amp; 1931.

**PERSIAN.**

The Punjab University Intermediate Persian Course.

Kimiya-i-saadat, by Al-Ghazzali, portion of the Akhlaq.

**ARABIC.**

Diwan-i-Ali, from the beginning of Radif of Kaf to the end.

Al-Fakhri, up to the end of Banu Umayyah.

**TAMIL.**

1929, 1930 &amp; 1931.

**PART I-B.**

1. Emperor Asoka, published by the Chandra Press, Chinna-thambi Street, Madras.

2. Janavinodini, Tamil XIX, Part I, edited by C. R. Nama-sivaya Mudaliyar, Lecturer in Tamil, Presidency College, Madras, (Published by Messrs. Coomarasawmi Naidu & Sons).
3. Buddah Charitram, the portion which deals with the life of Buddah alone by M.R.Ry. Mahamahopadhyaya V. Swaminatha Ayyar Avargal, 'Thiagaraya Vilas', Tiruvattiswaran-pet, Madras.

## PART II.

## GROUP (iii).

*Poetry—*

Selections published by the University:

Kalavali Narpathu, pages 22 to 25.

Thirukadukam, pages 26 to 27.

Harischandrapuranam, pages 298 to 340.

Kumaraguruparar Padal, pages 424 to 430.

*Prose—*

Puthalvar Kadamai (Filial Duty) by M.R.Ry. M. Gopala-Krishnan Ayl., Lecturer in Tamil, National College, Trichinopoly, (Published by Mr. E. M. Gopalakrishna Kone, Bookseller, Pudumantapam, Madura).

Tamil Varalaru, Part I, by M.R.Ry. Rao Bahadur Srinivasa Pillai Avargal, Tanjore.)

*Drama—*

Manonmaniyam by M.R.Ry. Rao Bahadur P. Sundaram Pillai Avargal, (Second Edition) Acts I and II, (S. Muthiah Pillai, Bookseller, Tinnevely Bridge).

## TELUGU

## PART I-B.

1929.

1. Ichinikumari by Ketavarapu Venkata Sastri, Mrs. A. V. N. College, Vizagapatam.
2. Jadabharatudu by Sreemati Pulugurta Lakshminarasamba, Savitri Office, Cocanada.
3. Vizianagara Samrajyam by Duggirala Raghavachandrish Choudary, Bezvada,

## PART II.

## A. Poetry—

Intermediate Selections in Telugu, published by the University:

No. 3, Dushyanta Maharaja Charitramu.

No. 4, Bhishmuni Charitramu.

No. 25, Uttara Gograhanamu.

No. 56, Vishnu Chittudu Pandiyuni Sabhakeguta.

## B. Drama—

Vichitra Paduka Pattabhishekamu, by J. Seshadri Sarma,  
Telugu Pandit, Municipal High School, Cuddapah.

## C. Prose—

Lives of Celebrated Women of Ancient India, Parts I and II,  
by R. Venkatasivudu.

1930

## PART I-B.

1. Lakshmana Royya Vyasavali Vignana Chandrika Series.
2. Somanatha Vijayam by Noru Narasimha Sastri, Guntur.  
(*Not as a model for composition but only for subject matter.*)
3. Praja Swamika Prabhutwam by C. L. Narasimhan, M.A.,  
L.T., Anantapur.

## PART II.

## A. Poetry—

Intermediate Selections in Telugu, published by the University:

	Verses.
No. 31—Yekshaprasnalu.	.. 90
No. 54—Ambarishopakhyanam	.. 72
No. 55—Chandrasahasacharitram	.. 83

Apurvasanghasamskaram by K. Gopala Rao.

## Drama—

Ramavanavasantakam by Janamanchi Seshadri Sarma Garu  
of Cuddapah.

**Prose—**

**Bharatasaram** by Nagapudi' Kuppuswamlah, 1 to 185 pages,  
 i.e., to the end of Udyogaparvam.

1931.

**PART I-B.**

**Chyavanudu** by K. Ramakrishna Sastri,

**Harischandra** by K. C. Desikachari.

**PART II.**

Same as for 1930.

**KANARESE**

1929, 1930 & 1931.

**PART I-B.**

1. **Karma Kathe**, by V. T. Galaganath ("Sadguru" Office, Haveri, Dt. Dharwar).
2. **Bharata Khandada Jeevajjotigalu**, by H. Chidambaraiya, "Bhakta Bandhu" Office, Basavangudi, Bangalore).

**PART II.**

**GROUP (ili).**

1. Selections published by the University, pp. 237 to 296.
2. Selections from **Nivedana**, by D. V. Gundappa, Poems Nos. 1, 2, 3, 4, 10 and 16. (M. S. Rao & Co., Avenue Road, Bangalore City).
3. **Swapna Vasavadatta**, by M. D. Alasingarachar (M. S. Rao & Co., Avenue Road, Bangalore City).
4. **Nataka Kale**, by Atmarama Sastri Odlamane (Sadananda Press, Mangalore).

**MALAYALAM**

1929, 1930 & 1931.

**PART I-B.**

**Hemapanjaram**—by Srimati T. Madhavi Amma (Ramanujam Publishing Co., Trichur).

**Narmada**—by Mr. C. P. Parameswaran Pillai, Malayalam Pandit, H. H. Maharaja's College for Women, Trivandrum.

**Hemalata**—by Mr. T. K. Velu Pillai, B.A., B.L., High Court Vakil, Trivandrum.

**PART II.**

**GROUP (III).**

**Poetry—**

Kerala Varma Ramayanam: Selections published by the University, pp. 84—106.

Kavana Valhityam—Kucela Panca Patham, by C. N. A. Ramayya Sastri, Bhaskara Press, Trivandrum.

Nalini: First sixty slokams, by N. Kumaran Asan (Mrs. N. Kumaran Asan, Thonnakal, Trivandrum.

**Prose—**

Keralaputran—by Mr. A. Narayana Puduval (B. V. Book Depot, Trivandrum).

**Time-tables for Examination**

**PART I-A, ENGLISH LANGUAGE AND LITERATURE**

Days	Hours	Subjects	Marks
First day	10—1	Poetry ... ..	90
Second day	10—12-30	Prose ... ..	60
Third day {	10—1	Subjects for Composition Composition	90
	2—4		60

PART I-B. COMPOSITION IN A VERNACULAR OR TRANSLATION  
FROM A CLASSICAL OR FOREIGN LANGUAGE

Days	Hours	Subjects	Marks
First day	10—1	Composition or Translation	100

PART II. OPTIONAL GROUPS

Days	Hours	Subjects	Marks
First day {	10—12 2—4	i. (a) <i>Mathematics</i>	
		First paper ... 50 Second paper ... 50	} 300
Second day {	10—12 2—4	i. (b) <i>Physics</i>	
		First Paper ... 50 Second Paper ... 50	} 300
Third day {	10—12 2—4	i. (c) <i>Chemistry</i>	
		First Paper ... 50 Second Paper ... 50	} 300
First day {	10—12 2—4	ii. (a) <i>Natural Science</i>	
		Botany ... 50 Zoology ... 50	} 300
Second day {	10—12 2—4	ii. (b) <i>Physics</i>	
		First Paper ... 50 Second Paper ... 50	} 300
Third day {	10—12 2—4	ii. (c) <i>Chemistry</i>	
		First Paper ... 50 Second Paper ... 50	} 300

## PART II. OPTIONAL GROUP III

Days	Hours	Subjects	Marks
First day {	10—12	iii. (a) <i>Ancient History</i>	
	2— 4	History of Greece ... History of Rome ..	50 50
Second day {	10—12	iii. (b) <i>Modern History</i>	
	2— 4	History of Great Britain and Ire- land, Political & Economic .. Do, do, ...	50 50
Third day {	10—12	iii. (c) <i>Indian History</i>	
	2— 4	First Paper ... Second Paper ..	50 50
Fourth day {	10—12	iii. (d) <i>Logic</i>	
	2— 4	First Paper ... Second Paper ...	50 50
Fifth day {	10—12	iii. (e) <i>Classical Language</i>	
	2— 4	First Paper ... Second Paper ...	50 50
Sixth day {	10—12	iii. (f) <i>Classical or other Language</i>	
	2— 4	First Paper ... Second Paper ...	50 50

Total of any three subjects, 300

## Statements of Tabulated Marks

(i) ENGLISH, VERNACULAR COMPOSITION OR TRANSLATION  
AND OPTIONAL GROUPS i AND ii

Register Number	Optional Group	English	Vernacular Composition or Translation	(a)	(b)	(c)	Total number of marks obtained	Whether passed or not passed	If passed, in what class ranked	Subjects, if any, in which distinction has been gained	Remarks
		300	100	100	100	100	700				

(ii) ENGLISH, VERNACULAR COMPOSITION OR TRANSLATION  
AND OPTIONAL GROUP iii

Register Number	Optional Group	English	Vernacular Composition or Translation	(a)	(b)	(c)	(d)	(e)	Total number of marks obtained	Whether passed or not passed	If passed, in what class ranked	Subjects, if any, in which distinction has been gained	Remarks
		300	100	100	100	100	50	50	50	50	700		



## APPENDIX XXII.

### B.A. DEGREE EXAMINATION

Regulations which were in force prior to 1929-30.

1. Undergraduates who have passed the Intermediate Examination in Arts and Science shall undergo a further course of study in an affiliated college varying in length according as they intend to proceed to the Bachelor of Arts Degree Examination or to the Bachelor of Arts (Honours) Degree Examination.

Under graduates proceeding to B.A. or B. A. (Hons.)

#### DEGREE OF BACHELOR OF ARTS.

##### A. Courses of Study.

2. For the B.A. Degree the course shall extend over a period of two years each consisting of three terms ordinarily consecutive and shall comprise instruction in—

Courses of Study for B.A.

Part I. English Language and Literature.

Part II. One of the following groups:—

- (i) Mathematics.
- (ii-A) Physical Science.
- (ii-B) Physical Science.
- (iii) Natural Science.
- (iv) Psychology, Ethics, and Logic or a Language
- (v) History and Economics.
- (vi) Languages other than English.

##### B. Examinations

3. (a) No candidate shall be eligible for the degree of Bachelor of Arts until he has passed an examination in English Language and Literature and in one of the optional groups contained in the courses of study.

Eligibility for the Degree

(b) No candidate shall be admitted to the examination unless he has passed the Intermediate Examination in Arts and Science in this University or an examination accepted by the Syndicate as equivalent thereto.

4. A candidate for the B.A. Degree Examination may at his option present himself for the whole or for either Part at any one time.

5. Candidates shall be examined in--  
1. English Language and Literature.

The course shall be (a) Composition on matter supplied by books set for perusal, (b) the study in detail of certain prescribed books.

The books set under (a) may include works of fiction, literary criticism, biography, history, science or philosophy.

Books set under (b) shall be arranged in the following groups:—

(1) Two plays of Shakespeare.

(2) Modern Poetry.

(3) Seventeenth and eighteenth century prose beginning with Dryden.

(4) Nineteenth century prose.

The paper on the books under (a) shall consist exclusively of subjects for short essays, and of these the paper shall contain a larger number than the candidate is permitted to attempt.

The papers set under (b) shall give the candidate an opportunity of showing an acquaintance with the life and work of the authors of the books prescribed.

**Part II—** **Optional Groups** **II. One of the following groups at the option of the candidate:—**

**(i) Mathematics**

In addition to the subjects prescribed under (a) Mathematics, (b) Physics, in Group (i) **Mathematics** (i) for the Intermediate Examination, the course will comprise Algebra, Plane Trigonometry, Geometry, Elements of the Calculus, Dynamics, Hydrostatics, Astronomy, Properties of Matter, and Heat.

**Pure Mathematics**

*Algebra.*—Inequalities, Limits, Elementary theorems in convergence and divergence of series. The binomial theorem for a rational index. Exponential and Logarithmic series. Partial fractions, elementary methods for the summation of series. The elementary properties of continued fractions. Indeterminate equations of the first degree. Elementary properties of Determinants. Typical graphs.

$$y = ax^n, y = a/x^n, y = ax + b + c/x \quad y = ax^2 + bx + c/x^2$$

*Graphical solution of cubic and biquadratic equations.*—General properties of the equation of the  $n$ th degree and its roots and co-efficients. Simple transformations of equations. Reciprocal equations. Approximate solution of numerical equations.

*Trigonometry.*—Fuller treatment of the Intermediate Course. *Quadrilaterals inscribed in and circumscribed about circles. Regular polygons. Limits of  $\sin x/x$  and  $\tan x/x$  as  $x$  tends to zero. DeMoivre's theorem and its immediate applications. Summation of elementary trigonometrical series.*

*Pure Geometry.*—As in the Intermediate Course, and in addition; Harmonic ranges and pencils. Inversion.

Geometry of the line, plane, sphere, the right cylinder and the right cone.

The fundamental geometrical properties of the conic sections.

*Analytical Geometry.*—The Cartesian equations of the straight line and the circle referred to rectangular axes, the parabola, ellipse, and hyperbola referred to their principal axes, and the rectangular hyperbola referred to its asymptotes. The general equation of the second degree. The polar equations of the straight line, circle and the conic. Simple problems on the above.

*The Calculus.*—Standard forms and fundamental processes of differentiation and integration. Simple applications of the derivative to geometry, algebra, mechanics and physics. Maxima and minima values of a function of one variable. Theorem of mean value (graphical proof). Approximations and small errors. Curvature, Cartesian formula for the radius of curvature. Integration by substitution. Integration by parts. Integration regarded as summation, with simple applications to areas, volumes and surfaces and to mechanics. Solution of the differential equation of simple harmonic motion.

#### Applied Mathematics.

*Dynamics.*—Resolution and composition of displacements, velocities, and accelerations. Curves of speed and velocity diagrams. Motion of a particle in one plane under constant accelerations. Simple harmonic motion; composition of simple harmonic motions. Angular velocity and angular acceleration; moment of velocity.

Absolute units of force. Resolution and composition of forces. Angular momentum: moments of inertia in simple cases; the pendulum; determination of  $g$ . Work, energy, conservation of energy; energy diagrams. Impact; the ballistic pendulum. Simple cases of the dynamics of strings. Dimensions of dynamical units. Conditions of equilibrium of a body acted on by forces in one plane. Moments, couples. Centre of mass. The theory of simple machines. Laws of friction. Graphical methods with simple applications.

*Hydrostatics.*—As in Group (ii-A).

*Astronomy.*—The apparent motion of the heavens. Circumpolar stars. The principal constellations and the most conspicuous stars.

*The celestial sphere.*—Points and lines on it:—Horizon, zenith, poles, meridian, etc.: the equinoctial points, etc.

Celestial co-ordinate; right ascension, declination, etc., latitude and longitude.

The transit circle, the equatorial, the clock. *The transit theodolite.* The sextant and chronometer.

*Phenomena depending on change of latitude and longitude of the observer:* Magnitude of the earth.

The apparent annual motion of the sun. The constellations of the zodiac. The ecliptic and its obliquity. The equinoxes and the solstices. *The earth's motion round the sun.* The seasons.

Sidereal time, apparent solar time, mean solar time. Equation of time. Standard time (India). Civil and astronomical reckoning. Conversion of time.

*Explanation of astronomical refraction and parallax.* Twilight.

Determination by observation of clock error and rate, of right ascension and declination of a heavenly body, and of the latitude and longitude of a station.

The solar system, and the motion of the planets. *Kepler's laws.* Comets and meteors.

The motion of the moon and her phases. The plane of her orbit. The nodes and their motion. The moon's sidereal and synodic periods. Her diameter and distance.

Distances and magnitudes of the sun, moon and planets.

Causes of the eclipses of the sun and the moon. Ecliptic limits. *Number of Eclipses in a year.* *The Calendar.* *The use of the Nautical Almanac.*

*Properties of matter.*—As in Group (ii-A).

*Heat.*—As in Group (ii-A).

(ii-A) *Physical Science.*

(ii-A) *Physical Science* *Physics.*—The course includes a more extended study of the matter included in the Intermediate course and in addition the following:—

*Dynamics.*—As in Group (i).

*Properties of matter.*—Elasticity: Hook's Law. Compressibility of gases (at high and low pressure) and liquids. Compressibility and rigidity of solids; the elastic limits. Strains due to simple longitudinal pull; Young's modulus and its expression in terms of  $k$  and  $n$ . Bending in one plane of bars of simple cross sectional area; flexural rigidity: application to girders. Simple twisting of wires of circular cross sectional area by couple in plane at right angles to length; torsional rigidity; applications to torsion balance, and shafts.

Diffusion of liquids and gases; analogy with conduction of heat. Osmosis, Viscosity. Pressure of a gas and its explanation on the kinetic theory; Avogadro's hypothesis; Vander Waal's equation.

*Hydrostatics.*—Thrust of fluid on plane and curved surfaces. Centre of pressure in simple cases. Floating bodies and conditions of stability. Properties of gases; determination of heights by barometer. Pumps, pressure gauges, and hydrostatic machines. Capillary phenomena and their explanation by surface tension; general theory of surface tension.

*Heat.*—The methods of calorimetry and thermometry. Vapour pressure, critical temperature and pressure. Conduction and diffusion of heat and the determination of constants. Radiation and absorption; laws of cooling. Theory of exchanges; methods of measuring radiation. Laws of thermodynamics; simple applications.

*Light.*—Velocity of light. Illumination; photometry. Achromatism in lens systems; direct vision spectroscope.

The wave theory; simple interference phenomena. Huygens' principle. Explanation of straight line propa-

gation, reflexion, and refraction of light. Action of mirrors, lenses, etc., reviewed from this standpoint. Simple diffraction phenomena. Gratings and wave length determination. Spectrum analysis; Doppler's principle. Double refraction and polarization of light; rotatory polarization; simple applications.

*Magnetism.*—Forces on a magnet in a magnetic field. Determination of axes and moment of magnet. Magnetic potential, level surfaces. Interaction of two short magnets; determination of field strength. Magnetic shell; its potential energy in magnetic field. Total normal induction, Gauss' theorem; number of lines of force. Magnetic induction in iron, etc. Theory of magnetism.

The magnetic field of the earth; the elements and their variations; the compass and its corrections.

*Electricity.*—Electric capacity; specific inductive capacity. Distribution of electricity on surface of conductors; images. Value of electric force in simple cases of distribution. The mechanical force on charged conductors; energy of electrified systems. The dielectric medium; dielectric displacement currents.

Wheatstone's bridge; specific resistance; resistance thermometers. Conductivity of electrolytes; ionization; migration phenomena; accumulators, Standard cells; the potentiometers system of measurement. Thermoelectricity; application of thermodynamics; thermoelectric diagrams. Electro-magnetic induction; Coefficients of induction; induction coils. Energy of circuit carrying current when placed in a magnetic field; mechanical force on conductors carrying current; moving coil instruments. Lenz's law; illustration from dynamos and motors, etc. Determination of current resistance, E.M.F. in absolute measure. The discharge of a condenser: electric waves.

The elementary theory of the continuous current dynamo and motor and of the alternate current dynamo. General principles of the application of electricity to lighting, power transmission, telegraphy, etc.

*Sound.*—The transmission of energy through material media by wave motion; speed of propagation of waves of

permanent type. Nature of musical sound; pitch, scales. Reflexion and refraction of sound; influence of wave length. The vibration of strings, bars, plates and gas columns; resonance. Interference and diffraction phenomena. Analysis of sounds. Measurement of wave length, velocity and pitch.

A practical examination will be held to test the candidate's acquaintance with the phenomena and his ability to show them, as well as his ability to make physical measurements. At the practical examination candidates must submit to the Examiner or Examiners their laboratory note-books duly certified by their professors or lecturers as a *bona fide* record of work done by the candidates.

*Chemistry.*—The course is the same as that prescribed in General Theoretical and Physical Chemistry in (ii-B) excluding the chemistry of the carbon compounds, but the examination will be of a less advanced character than that for candidates taking (ii-B).

A practical examination will be held to test the candidate's ability to make experiments illustrating the subjects included in the course, identifying the more common metals and their compounds (containing not more than one acid and one base), and making simple volumetric analyses with standard solutions of acids, alkalis, potassium permanganate, and of iodine and sodium thiousulphate.

#### (ii-B) *Physical Science.*

*Chemistry.*—*General Theoretical Chemistry and Physical Chemistry.*—The methods of determining equivalents, atomic and molecular weights; the atomic theory; valency; osmotic pressure; the kinetic theory of gases; the properties of solutions; electrolysis and theory of electrolytic dissociation; the relations of the physical properties of substances to their chemical nature, with special reference to the rotation of the plane of polarization, to refraction and dispersion, crystalline form, atomic and molecular volume, emission and absorption spectra.



The law of mass-action; the velocity of chemical change; and the relations of chemical energy to heat, and to electrical energy.

The elements (excluding the rare metals) and their compounds studied in detail.

Chemistry of the carbon compounds treated from an elementary standpoint:—

- (1) Composition, purification and analysis of organic compounds.
- (2) The hydrocarbons of the methane, ethylene and acetylene series and their derivatives.
- (3) The alcohols, aldehydes, ketones and their derivatives.
- (4) The allyl derivatives of the more important elements.
- (5) The fatty acids and their derivatives.
- (6) The hydroxy acids and their derivatives.
- (7) The unsaturated acids and their derivatives.
- (8) The more important members of the carbohydrate group.
- (9) Benzene, naphthalene, anthracene and their more important derivatives and reactions.

The practical examination in Chemistry will include—

1. Qualitative analysis, including analysis of mixtures of mineral substances.

2. Quantitative analysis, including (a) the estimation of alkalis, alkaline carbonates, and acids, by neutralization, (b) determinations involving the use of the permanganate, dichromate, iodine and thiosulphate processes, (c) the estimation of chlorides and cyanides by titration with silver nitrate, and also with thiocyanate, (d) gravimetric determinations of iron, calcium, copper, silver, lead, sulphuric acid, hydrochloric acid, phosphoric acid.

Candidates will be required to be able to standardize the solutions for volumetric analysis.

### 3. The determination of molecular weights.

4. Preparation of at least six simple organic substances: *e.g.*, Chloroform, Ether, Ethylacetate, Acetic Anhydride, Urea, Nitrobenzene, Aniline; Phenol; Benzoic Acid (from Toluene), Iodobenzene, Salicylic acid, Azodye, etc.

At the practical examination candidates must submit to the Examiner or Examiners their laboratory note books (duly certified by their professors or lecturers) as a *bona fide* record of work done by the candidates.

*Physics: Properties of matter.*—Compressibility of gases (at high and low pressure) and liquids. Diffusion of liquids and gases. Analogy with conduction of heat. Osmosis viscosity, pressure of a gas, and its explanation on the kinetic theory; Avogadro's hypothesis, Vander Waal's equation.

*Hydrostatics.*—As for candidates taking Group (ii-A).

*Heat.*—As for candidates taking Group (ii-A).

*Light.*—As for candidates taking Group (ii-A), but excluding Geometrical Optics.

*Electricity.*—As for candidates taking Group (ii-A), but excluding Statical Electricity.

The examination in these subjects will be of a less advanced character than that for candidates taking Group (ii-A). A practical examination will be held to test the candidate's knowledge of the subjects in this syllabus and his ability to make simple Physical measurements.

### (iii) Natural Science.

Candidates shall take any two of the following subjects, one of the two being a subsidiary subject:—

(iii)  
Science

A. Botany.

B. Zoology.

C. Geology.

D. Human Physiology.

(As main only.)

In the parts covered by both syllabuses (of any one subject) the knowledge required for the examination in the subsidiary shall be less detailed than that in the main subject.

The Examination shall consist of—

1. In the Main subject—

Two papers of three hours each .

Two practical examinations of three hours each.

2. In the Subsidiary subject—

Two papers of two hours each.

One practical examination of three hours.

A. Botany. 1.—as the main subject.

1. The main points of structure, development, history and the taxonomic relation of following groups in general and the Genera in particular:—

A. Botany

**BACTERIA.**

*Cyanophyceæ*

Oscillaria, Nostoc, or Rivularia.

*Chlorophyceæ*

Chlamydomonas, Pandorina, Eudorina, Volvox, Ulothrix Ulva, Enteromorpha, Coleochaete, Protococcus, Scenedesmus, Hydrodictyon, Cladophora, Vaucheria, Caulerpa, Botrydium, Spirogyra, Zygnema Desmids, Chara, Nittella, Diatoms.

*Phæophyceæ*

Ectocarpus, Fucus, Sargassum, Dictyota.

*Rhodophyceæ*

Batrachospermum, Polysiphonia, Gracilaria.

*Phycomycetes.*

Pythium, Phytophthora, Mucor, Rhizopus, Pilobolus.

*Ascomycetes.*

Erysiphe, Peziza, Xylaria.

*Basidiomycetes.*

Ustilago, Puccinia, Agaricus, Lycoperdon.

## LICHENS.

*Bryophytes.*

Riccia, Marchantia, Anthoceros, Mosses.

*Pteridophytes.*

Ferns, Marsilia, Lycopodium, Selaginella.

*Gymnosperma.*

Pinus, Cyas.

## 2. The external morphology of flowering plants.

3. The general principles of classification and the distinguishing characteristics of the following Natural Orders as used in the Flora of British India:—

Ranunculaceæ.

Anonaceæ.

Menispermaceæ.

Nymphaeaceæ.

Cruciferae.

Capparidææ.

Caryophyllaceæ.

Guttiferæ.

Malvaceæ.

Sterculiaceæ.

Tiliceæ.

Geraniaceæ.

Rutaceæ.

Meliaceæ.

Rhamnææ.

Sapindaceæ.

Papilionaceæ.

Cæsalpinææ.

Mimoseæ.

Rosaceæ.

Combretaceæ.

Myrtaceæ.

Lythraceæ.

Cucurbitaceæ.

Umbelliferæ.

Rubiaceæ.

Compositæ.

Sapotaceæ.

Oleaceæ.

Apocynaceæ.

Asclépiadææ.

Boraginææ.

Anacardiaceæ.  
 Solanaceæ.  
 Scrophularinææ.  
 Acanthaceæ.  
 Labiate.  
 Verbenaceæ.  
 Amarantaceæ.  
 Loranthaceæ.  
 Euphorbiaceæ.  
 Urticaceæ.  
 Piperaceæ.

Convolvulaceæ.  
 Laurinææ.  
 Orchidæ.  
 Scitamineæ.  
 Amaryellidææ.  
 Liliacelin.  
 Commelinaceæ.  
 Palmeæ.  
 Aroidææ.  
 Cyperaceæ.  
 Graminææ.

#### 4. *Physiology.*

The chemical composition of the plant. Materials of plant food and their sources. The nature of soil and importance of its constituents and micro-organisms. Movements of water and gases. Assimilation of carbon and nitrogen. Transpiration and translocation of the assimilated products. Metabolism. Parasitism and other special modes of nutrition. Respiration. The influence of light, heat and gravity. Growth, movements and irritability in plants. Sexual reproduction and its significance. Vegetative reproduction. The phenomena of cross-fertilization. Variation, Heredity, and Mendelism. Theories of Evolution and Origin of Species.

#### 5. *Histology.*

The structure and modes of the division of the cell, and the nature of its contents. The nature and mode of origin of plastids, cell sap and other cell contents. The physical and chemical properties of protoplasm and cell wall. The origin, nature, and development of plant tissues. Primary and secondary tissues, and their distribution in the plant body.

#### *Practical Work.*

Candidates are expected to be able to make preparations illustrating the form and structure of any plant of the Groups or Orders mentioned in the syllabus and to describe them with sketches sufficient for their identifica-

tion; to make dissections with the simple microscope of the floral parts of phanerogams, and to make drawings, construct floral diagrams and refer them to their Natural Orders; to describe in technical language plants belonging to any of the Orders or Groups specified in the syllabus.

At the practical examination each candidate must submit his laboratory note-book, and a collection of named plants collected and preserved by himself.

## II.—as the subsidiary subject.

- (1) The structure and life history of the following:—

*Bacteria, Oscillaria, Chlamydomonas, Pandorina, Eudorina, Plectorina, Volvox Ulothrix, Oedogonium, Spirogyra, Ectocarpus, Polysiphonia, Nitella, Rhizopus, Peziza Puccinia, Agaricus, Marchantia Mosses, Selaginella, Fern, Cycas, Pine.*

- (2) External Morphology of Flowering Plants.

- (3) The general principles of classification and the characteristics of the following families:—

*Anonaceæ, Nymphaeaceæ, Leguminosæ, Malvaceæ, Rutaceæ, Myrtaceæ Cucurbitaceæ, Rubiaceæ, Compositæ, Apacynaceæ, Asclepiadaceæ, Convolvulaceæ, Solanaceæ, Acanthaceæ, Labiatæ-Amarantaceæ, Euphorbiaceæ, Urticaceæ, Liliaceæ, Amaryllideæ, Scitamineæ, Orchideæ, Palmæ, Cyperaceæ, Gramineæ.*

- (4) Plant Physiology:—

Chemical composition of the plant, soil and its nature. Photosynthesis, Transpiration, Respiration, Metabolism, Heterotrophic Plants, Growth, Movements, Irritability, Reproduction (Sexual and Asexual), Cross and Self Fertilization, Variation, Heredity and Mendelism, Theories of Evolution and the Origin of Species.

**(5) Histology:—**

Cell structure and Cell division, plastids, Cell-saps, other Cell contents, the origin, nature and development of Plant-tissues. Primary and Secondary tissues and their distribution in the plant body.

**B. Zoology. I.—as the main subject.**

*The Scope of Zoology.*—The leading features in the structure, the most important points concerning the development, the affinities, and the general classification of the

**B. zoology** forms included in the following groups (except in rare cases, no knowledge of extinct forms will be required):—

Protozoa. Porifera. Cœlenterata. Platyhelminia. Nemertini, Nemetoda. Acanthecephala. Chætognatha. Rotifera. Brachiopoda. Annelida. Phoronidea. Polyzoa. Arthropoda. Mollusca. Echinodermata. Chordata.

A general acquaintance with the vertebrate fauna of South India.

The geographical distribution of the more interesting groups of the Chordata. Outlines of the theory of organic evolution. Evidences on which the theory is based.

Candidates will be required to examine, describe, identify, or otherwise deal with specimens and preparations illustrating points of zoological interest in connection with any of the preceding groups. They will, in addition, be expected to have a full practical knowledge of the structure, and will be required to make dissections and simple microscopic preparations of any of the following types:—

Amœba. Vorticella. Hydra. Earthworm. Leech. Prawn and Crab (external characters). Scorpion. Centipede (external characters). Cockroach. Fresh-water Mussel. Amphioxus (preparations and sections). Dogfish (skeleton). Frog. Pigeon. Hare.

Candidates may also be examined by *viva voce* questions.

**II.—as the subsidiary subject.**

## SYLLABUS FOR ZOOLOGY SUBSIDIARY.

The scope of Zoology:—The leading features in the structure, the most important points concerning the development, and the affinities of the forms included in the following Phyla in general and of the following types in particular.

Students will not be expected to be familiar with characters of orders or other sub-groups not mentioned in the following scheme.

Protozoa—*Rhizopoda*. (Lobosa, Foraminifera, Heliozoa and Radiolaria.)

*Mastigophora*. (Flagellata)

*Infusoria*. (Ciliata)

*Sporozoa*.

Types: Amoeba, Euglena, Volvox, Paramoecium, Vorticella, Monocystis and Malarial Parasite.

Coelenterata—*Hydromedusae*.—(Hydrida, Gymnoblastera, Anthomedusae, Calyptoblastea, Leptomedusae, Trachymedusae, Narcomedusae, Hydrocorallina and Siphonophora).

*Scyphomedusae*. (Stauromedusae, Coronata, Cubomedusae and Discomedusae).

*Anthozoa*. (Zoantharia and Alcyonaria)

Types. Hydra, Obelia, Aurelia, Sea Anemone and Hormiphora.

*Ctenophora*.

Platyhelminthes—Types—Taenia and Liver Fluke. (Fasciola).

Nemathelminthes—Type—Ascaris.

Annelida—

Archiannelida

Chaetopoda (Polychaeta and Oligochaeta)

Hirudinea

Echiuroidea

Types—Nereis, Earth worm and Leech.

Arthropoda—*Crustacea*. (Entomostraca and Malacostraca)

Types—Streptocephalus, Lepas, Sacculina, Prawn and Crab.

*Onychophora*—Peripatus.

*Myriapoda* (Centipedes and Millipedes)

*Insecta*. (Aptera, Orthoptera, Coleoptera, Neuroptera, Hymenoptera, Hemiptera, Diptera and Lepidoptera)  
Type Cockroach.

*Arachnida* (Scorpions, Spiders and Kingcrab)

Type—Scorpion.



Mollusca—Pelecypoda  
Gastropoda  
Cephalopoda

Types—Mussel, Chiton, Pila (Ampullaria) and Sepia.

Echinodermata—Asteroidea.  
Ophiuroidea.  
Echinoidea.  
Holothuroidea.  
Crinoidea.

Types—Star fish, Brittle star, Sea-urchin, Sea Cucumber and Feather Star.

## CHORDATA.

Prochordates-- Balanoglossus, Ascidia and Amphioxus.

Vertebrata—Pisces—Elasmobranchii.  
Teleostomi.  
Dipnoi.

Amphibia	...	...	{ Anura Urodela Gymnophiona.
Reptilia	...	...	{ Lacertilia Ophidia Chelonina Crocodilla
Aves	"	...	{ Archeornithes Neornithes—(Rallitae Carinatae).
Mammalia	Prototheria.		
	Metatheria	...	{ Diprotodontia Polyprotodontia Edentata Sirenia Cetacea Proboscidea Ungulata Hyracoidea
	Eutheria	...	{ Rodentia Carnivora Insectivora Chiroptera Prosimiae Primates.

Types—Balanoglossus, Ascidian, Amphioxus, Dog fish, Bony fish, Frog, Calotes, Pigeon and Rabbit.

A general knowledge of the theory of Evolution.

## Practical Work—

Candidates will be expected to have a practical knowledge of the structure and shall be required to make dissections and simple microscopic preparations of any of the following types :—

Earthworm, Nerels, Leech, Prawn (external features); Scorpion; Cockroach; Freshwater mussel, Ampullaria, Sepia (external features)

Frog (sympathetic system and VIIIth cranial nerve excepted); Pigeon, Rabbit (nerves excepted).

## C Geology

## C. GEOLOGY. I—as the main subject.

### I. Physiography.

### II. Mineralogy and Crystallography.

### III. Petrology.

### IV. Structural and Field Geology.

### V. Stratigraphy and Palæontology.

#### (i) Physiography.

An elementary course of lectures on the following:—

The earth as a planet, its general relations to the other members of the solar system, hypotheses as to the origin of the earth; form, size and density of the earth; its movements and their effects.

The Atmosphere—its composition, height, density; pressure, temperature, moisture and movements; weather, refraction, twilight, and aurora-borealis.

The Hydrosphere—its composition, extent and distribution, depth, temperature and movements.

The Lithosphere—the chief constituents of the earth's crust, the general characters and mode of occurrence of igneous and sedimentary rocks. Condition of the interior of the earth.

*Agents of geological change.*—The hypogene and epigene agents of geological change, manner and results of their action, especially as influencing earth-sculpture—the destruction, construction, and gradual evolution of the crust of the earth and of its surface features.

Fossils, the main conditions favourable for their formation and preservation and their value as interpreters of the past history of the earth.

Climates—their causes and distribution; glacial epochs.

Simple facts about the geographical and geological distribution of the chief types of plant and animal life. Antiquity of man. Views as to the age of the earth's crust.

(ii) Mineralogy and Crystallography.

Symmetry; lines, planes and axes of symmetry; laws of Crystallography; the common holohedral, hemihedral and hemimorphic crystal forms and combinations under each of the six crystal systems; the more important types of twins and twinning; drawing of the more important crystal forms; systems of crystal notation, use of the contact Goniometer.

The principal physical properties of minerals which aid in the recognition of the various mineral species.

Isomorphism, paramorphism, pseudomorphism and dimorphism.

The chief characteristics of all the more abundant minerals including both those which are of geological interest and those of commercial value, their modes of occurrence and uses.

The practical determination of the chief physical and chemical properties of the commoner ores and minerals, including the use of the blowpipe.

(iii) Petrology.

The classification and distribution of rocks, and the composition, structure, texture, origin and mode of occurrence of all the more important types and their metamorphic and altered forms.

Contact and Regional Metamorphism.

The macroscopic and microscopic examination of rocks including the determination of the simpler optical characters of the chief rock forming minerals in parallel polarized light. Preparation of diagrams or sketches to represent features observed in rock sections under the microscope. Construction and use of a simple petrological microscope.

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#### (iv) Structural and Field Geology.

The more important lithological and structural features of rocks, their origin or formation; structure of mineral veins. Diagrammatic sketches of the above.

Construction and Interpretation of geological maps and sections. Tracing of outcrops. Simple problems in Structural Geology.

#### (v) Stratigraphy and Palæontology.

The chief petrological and palæontological characters of the main geological divisions and their Indian representatives and the probable physical conditions under which they were formed.

Fossils, their nature and preservation. The main groups of vegetable and animal life and their distribution in time.

The characters, classification and distribution of the more important types of fossils—especially Indian; identification and sketching of fossils; causes for the imperfection of the geological record; the general succession of life as revealed thereby and the general evidence furnished on support of evolution; principle of correlation; Homotaxis.

#### (vi) Practical Examination

The knowledge of the candidate in accordance with the syllabus will be tested also by practical examination. *Viva voce* questions may be asked, acquaintance with field work is necessary.

#### II.—as the subsidiary subject.

1. The chief rock-forming minerals, quartz, felspar, mica, hornblende, augite, olivine, magnetite, hæmatite, pyrites, chlorite, calcite, serpentine and clay.

The chief types of igneous, aqueous and metamorphic rocks. Granite, syenite, diorite, gabbro, dolerite and basalt. Conglomerate, sandstone, shale, limestone, gypsum, coal. Slate, marble, gneiss and schist.

2. Denudation, subaerial and submarine. Rain. Rivers. Sea. Lakes. Springs. Sedimentation. Stratification, cementation and consolidation. Volcanoes and formation of volcanic rocks.

3. Elementary knowledge of rock structure stratification, dip, strike, outcrop, folds, faults, cleavage, joints.

The surface features as influenced by the nature and disposition of the rock. Water-supply. Permeable and non-permeable rocks.

4. Rocks as embodying the history of the earth; fossils, their mode of formation and value in Geology and also in the Biological Sciences; the order of superposition. The Geological Record, its general conclusions relating to former changes in the physical features of the earth and also in the character of the organic forms; the order of succession of Animal and Plant life on the surface of the globe. The theory of Evolution.

The Practical Examination may include the interpretation of maps and tectonic models and sections across them of representations of scenery, and also the identification and description of the minerals, rocks and fossils.

Candidates will be expected to show some acquaintance with field work.

**D. HUMAN PHYSIOLOGY.**—as the main subject. For syllabus, *vide* page 905.

(iv) *Psychology, Ethics, and Logic or a Language.*

(iv) **Psychology, Ethics, Logic or a Language** (1) Psychology, (2) Ethics, (3) A philosophical work to be prescribed annually in whole or in part, (4) Logic and the Theory of Knowledge, *or* a Language.

Text-books will be recommended from time to time as indicating the scope and standard of the examination, but the questions will not be confined to the books recommended.

The courses in the several languages shall be as follows:—

- (1) Sanskrit.—Extracts from Indian Philosophical Literature.
- (2) Persian or Arabic.—Extracts from the Philosophical Literature of those Languages.
- (3) The Dravidian Languages, Oriya, Marathi, Urdu or Hebrew.

Books of the same standard of difficulty as those prescribed under Group (vi).

- (4) Greek or Latin.—Portions of Plato or Aristotle or of the philosophical writings of Cicero, respectively.
- (5) French or German.—Selections from French or German Philosophical Literature.

In each language there shall be one paper of three hours' duration which shall contain questions on the subject-matter of the set books, a critical knowledge of which will be required, and also passages from those books for translation into English and explanation, together with unseen passages for translation into English from the selected Classical or Foreign language or original composition in the selected vernacular language.

(v) *History and Economics.*

*Either A.*

- (1) General Indian History, (2) Constitutional History of Great Britain and Ireland, (3) Outlines of European History, A.D. 476 to A.D. 1878, (4) Elements of Economics, (5) Political Science or a Language.

(v) History and Economics

The courses in the several languages shall be as follows:—

- (1) Sanskrit.—Extracts from the Vedic and Classical Literature illustrative of Indian History.
- (2) Persian or Arabic.—Extracts from the Classical Literature illustrative of Muslim History.
- (3) The Dravidian Languages, Oriya, Marathi, Urdu or Hebrew.

Books of the same standard of difficulty as those prescribed under Group (vi).

- (4) Greek or Latin.—Prescribed portions of Greek or Roman Historians.
- (5) French or German.—Prescribed portions of French or German Historians.

In each language there shall be one paper of three hours' duration which shall contain questions on the subject matter of the set books, a critical knowledge of which will be required, and also passages from those books for translation into English and explanation, together with unseen passages for translation into English from the selected Classical or Foreign language, or original composition in the selected vernacular language

or B.

- (1) Economics—General,
- (2) Economics—Special I,
- (3) Economics—Special II,
- (4) Modern History, according to a syllabus,
- (5) Indian History, according to a syllabus.

(vi) *Languages other than English.*

(v) Languages other than English  
 Candidates may select any one of the following languages, which shall be taken in conjunction with the related subject or related language specified for each language in the following lists:--

<i>Selected Language</i>	<i>Related Subject</i>
Sanskrit.	Early Indian History.
Persian or Arabic.	Early Muslim History.
Urdu.	Indian History—Muslim Period.
Tamil, Telugu, Malayalam or Kanarese.	Early South Indian History.
Oriya.	Early History of Orissa.
Greek or Latin.	A special period of Greek or Roman History respectively
Marathi.	History of the Marathas.
German or French.	A special period of Modern European History.
Hebrew.	History of the Jews.
	<i>Related Language.</i>
Sanskrit, Arabic, Persian, Hebrew, Greek, Latin, German or French. }	None.
Dravidian Languages, Marathi or Oriya, Urdu. }	Sanskrit.
	Arabic or Persian.

The courses of study in the several languages shall be as follows:

(1) (a) *Sanskrit (Main).*

Sanskrit Language and Literature. The course shall be:—

- (a) Selections from the Early Period, including Vedic Mantras, Brahmanas, Aranyakas and Upanishads and the Sutra literature.
- (b) Selections in prose and verse from the Later Period, including the Dharmasastras, and the Itihasa, Kavya and Nataka literature,



A knowledge of Alamkara-sastra will be required sufficient for the correct understanding of native commentators.

- (c) Sanskrit Grammar treated historically and comparatively in accordance with a syllabus.
- (d) Translation from and into Sanskrit.
- (e) General History of Sanskrit Literature.
- (f) Early Indian History.

In the examination there shall be two papers, each of three hours' duration in subject (b) and one paper of three hours' duration in each of other subjects, except Translation which will form part of the papers set on (c) and (b) above.

(b) *Sanskrit (Subsidiary).*

The course shall consist of the study of one drama of the classical period and portions of one Kavya. In the examination there shall be one paper of three hours' duration which shall include pieces for translation from Sanskrit into the main language.

(2) *Urdu.*

The course shall consist of:—

- (a) Prose books from different periods, including at least one modern work.
- (b) Poetry books from different periods, including at least one modern work.
- (c) Translation from prose and poetry books other than the set books, translation from English into Urdu to be made in an approved modern style.
- (d) History of Language and Literature.
- (e) Indian History—Muslim Period, or Arabic or Persian.

(3) (a) *Arabic or Persian (Main).*

The course shall consist of:—

- (a) Prose books selected from different periods.
- (b) Poetry books selected from different periods.
- (c) Translation from prose books other than the set books: translation from the set poetry books and from English into Arabic or Persian Prose.
- (d) History of Language and Literature with special reference to the set books.
- (e) A selected period of early Muslim History.

The periods of History for Persian or Arabic may be one or other of the following:—

1. The four first Khalifas and the Umayyad Khalifate, excluding Africa and Spain.
2. The Abbasid Khalifate, excluding Africa and Spain and the wars of the Crusades.
3. The Muslim conquest of Egypt and Northern Africa until the fall of the Abbasid Khalifate and excluding the wars of the Crusades.
4. The Arab conquest of and rule in Spain.
5. The wars of the Crusades.

(b) *Arabic or Persian (Subsidiary).*

The course shall consist of the study of selected pieces from one poet of the classical period and selected portions from the works of one standard prose writer. There shall be one paper in the examination of three hours' duration which shall include pieces for translation from Arabic or Persian into the main language.

(4) *Tamīl, Telugu, Kanarese or Malayalam.*

The course shall be: —

- (a) The study of selections representative of the several periods of the literature of the selected language including one or more inscriptions.
- (b) The history of the literature with special reference to the set books.
- (c) The elements of the Grammar, including the elements of the Prosody and Rhetoric of the language, and the history of the language as illustrated by the set books.
- (d) The elements of the Comparative Grammar of the Dravidian Languages.
- (e) Composition.
- (f) Early South Indian History or Sanskrit.

(5) *Oriya or Marathi.*

The course shall be the same as for the Dravidian Languages, with the substitution of Guadian Grammar for Dravidian Grammar, and of the Early History of Orissa or the History of the Marathas respectively for Early South Indian History.

(6) *Greek or Latin.*

The course shall consist of:—

- (a) Prescribed portions of the writings of the more important Greek or Latin authors.
- (b) Grammar of the language with reference to Indo-Germanic Grammar.
- (c) Greek or Latin Prose composition and translation of unprepared passages.
- (d) A general knowledge of Greek History to the death of Alexander, or of Roman History to the death of Trajan, with a more minute knowledge of some prescribed period,

- (e) A general knowledge of Greek or Roman Literature with a more minute knowledge of the authors of the prescribed books.

(7) *French or German.*

The course shall consist of:—

- (a) The study of set books representative of various periods of French or German literature.
- (b) The History of French or German literature with special reference to the set books.
- (c) The history of the French or German language.
- (d) Translation from French or German into English, and of English into French or German.
- (e) Composition.
- (f) A period of European History with special reference to French or German History.

In the examination the subjects for composition shall be taken from the set books or shall relate to the periods of French or German literary or political history studied in the course. In the translation paper, the passages set for translation from French or German into English shall be specimens of modern French or German, not taken from the set books.

(8) *Hebrew.*

The course shall consist of:—

- (a) Set books.
- (b) Grammar and translation from and into Hebrew.
- (c) History of the Language and the Literature.
- (d) A selected period or periods of the History of the Jews.

plasm and its properties. Histology of the principal tissues and organs of the body. Chemical composition of the body. Muscle. Irritability. Contractility. Muscle-nerve preparation. Muscular contraction. Changes during contraction. Nature of muscular and nervous action. Electrotonus. Circulatory system and circulation. Regulation of the vascular mechanism. Vasomotor action. Inflammation. Composition of blood. Coagulation of the blood. Lymphatic system. Nature and movements of lymph. Secreting glands. Food-stuffs. Nature, properties and secretion of saliva, gastric juice, bile, pancreatic juice, and succus entericus. Mechanism of digestion. Changes which food undergoes in the alimentary canal. Absorption. Liver and its work. The ductless glands and what is known about their functions. Respiration. Respiratory mechanism. Nervous mechanism of respiration. Changes of the air during respiration. Changes in the blood. Respiration of the tissues. Asphyxia. Effect of respiration on the circulation. Special respiratory movements. Cutaneous respiration. Composition, character and secretion of urine. Urinary apparatus. Micturition. Nature and composition of sweat. Mechanism of the secretion of sweat. General metabolism. Statistics of nutrition Diet. Energy of the body. Temperature of the body. Production and regulation of animal heat. Nerves and nerve-functions. Trophic nerves. Columns and tracts of the spinal cord; evidence for their existence. Functions of the cord. Reflex action. Structure of the brain. Disposition and connections of the grey and white matter of the brain. Functions of the brain. Removal of the cerebrum. Localization of cerebral functions. Cerebellum. Machinery of co-ordinated movements. Sensations. Structure of the eye. The eye as an optical instrument. Accommodation. Imperfections in the visual apparatus. Features of visual sensation. Colour sensation. Binocular vision. Visual judgments. Structure of the ear. Auditory sensation. Taste and smell. Cutaneous sensations. Muscular sense. Mechanism of locomotion, voice and speech. Impregnation. Outlines of the development of the embryo and its envelopes. Nutrition of the embryo. Birth. Lactation. Phases of life. Death.

*Practical Examination.*—Candidates must be prepared to answer *viva voce* questions, to examine, stain, mount and describe sections, and to identify microscopic preparations. They must show their practical acquaintance with the chemistry of albumin and its allies, milk, glycogen, the digestive juices (and their action on food), blood and urine. They will be expected to be familiar with the use of the most important apparatus employed in studying the physiology of muscle, nerve, the circulatory and respiratory systems and the organs of sense.

Taken as a subsidiary subject, Physiology shall include a knowledge of the essential facts of the structure and functions of the body as indicated below:—

Food, digestion and absorption. Nature, composition and functions of the blood. Circulation. Vasomotor action. Lymph.

Respiration and the respiratory mechanism. Secretion. Work of the liver. Sweat and its formation. Work of the kidneys. Temperature of the body and its maintenance. Various modes in which muscles give rise to movement. Functions of the principal parts of the central nervous system. Functions of nerves. Reflex action. General account of the sensory organs.

In the practical examination candidates will be expected to answer *viva voce* questions, and to identify microscopical preparations. They must show their practical acquaintance with the chemistry of albumin, milk, and urine, and with the action of the digestive ferments on food. They may be required to take tracings of a simple muscular contraction, and of a contracting heart.

## **HISTORY AND ECONOMICS**

### **(3) SYLLABUS OF THE COURSE IN POLITICAL SCIENCE FOR GROUP (V-A)**

*The State.*—Its characteristics and relation to kindred conceptions, e.g., People, Nation, Society, Government, Constitution. Its value.

*The origin of the State.*—The family, patriarchal or matriarchal primitive headship; slavery or adoption, conquest or amalgamation

*The Ancient City State.*—Political evolution in Sparta, Athens, Rome—Monarchy, Aristocracy, Oligarchy, Tyranny, Democracy. The Federated City State. The Imperial City State.

*The Country State.*—Break up of the Roman Empire—Political forces of the Middle Ages—Feudalism, the Holy Roman Empire, the Papacy, premature Constitutionalism, the reappearance of the City State.

The modern period, Political influences of the Renaissance, Reformation, Maritime Discoveries. National monarchy in England and France—resemblance and contrast in sixteenth, seventeenth and eighteenth centuries.

The Social contract.

Constitutional Monarchy. Republican Government, e.g., France and U.S.A.

The Federated Country State. The Imperial Country State.

*Analysis of the Modern State.*—The Legislative, Executive, and Judicial powers. The principle of separation of powers (a) as between federal and part state organs, e.g., U.S.A., (b) as be-

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tween the Legislature, Executive and Judiciary, e.g., U.S.A., Great Britain, France.

*The Legislature.*—Two Chambers—their composition and powers. The representative and the telephone theories. Direct legislation by referendum and initiative. Sovereign and non-sovereign legislature. Rigid and flexible Constitutions.

*The Executive.*—Parliamentary and non-parliamentary Executives. The Cabinet.

*The Judiciary.*—Its relation to the Executive and the Legislature. The 'rule of law.'

*Party-Government.*—Its development in Great Britain and the U.S.A. Its merits and defects.

*The Sphere of the State.*—The Greek and Roman view. Teutonic individualism.

Mercantile policy. Laissez Faire. Modern Individualism and Socialism.

The following books are recommended for study, but are not prescribed:—

Fowler: *The City State of the Greeks and Romans.*

Sidgwick: *The Development of European Polity.*

Leacock: *Elements of Political Science.*

Low: *The Governance of England.*

#### (4) SYLLABUS IN ECONOMICS FOR GROUP (V-A)

The following syllabus in Economics has been approved by the Syndicate:—

Students will be required to show a clear understanding of economic principles by intelligent application of economic theory to Indian facts and problems.

*General.*—The scope of Economics. Relation of Economics to other Sciences. Methods of Economic enquiry, deductive and inductive (e.g., family budgets, village and city surveys, statistics). History (in broad outline) of Economic thought.

*Psychological Basis of Economics and Consumption.*—Classification of Wants, Satiability. Wants in relation to activities. Elastic and Inelastic Demand. Economic meaning and types of Consumption. Conception of 'Utility, and 'Value'. Economic motive; the 'Economic Man'; influence of family system.

*The Production of Wealth, Definition.*—Production as (a) creation of use value, (b) creation of exchange value. *Classification.*

**Production for Producer's use (a) Individual, (b) Social, Production for the Market.**

*Factors of Production, Natural forces and materials, soil, sun, rain, minerals, etc. The Principle of Conservation. Material capital (Classification of forms, social and individual capital). Human energies, (a) physical, (b) intellectual. Theory of population. Efficiency dependent on (a) individual physique, nutrition, knowledge, skill, moral quality, (b) social conditions; e.g.; social order, co-operation and division of labour. Methods of conserving past acquisitions of skill and knowledge (e.g., hereditary occupations, apprenticeship, industrial education). New acquisitions (e.g., research, and invention) .*

*Characteristics of Modern Production, Basis, (a) Individual Property, (b) Contract. Character (a) Mercantile, (b) Capitalistic, Forms (a) Individual (peasant and craftsman); (b) patronal (individual employer and joint stock company), (c) Co-operative, (d) Collectivist (state and municipal). Specialization, Concentration in agriculture, manufacture, transport, commerce, Horizontal and Vertical combination. Competition and Monopoly. Extent to which Indian industry possesses these characteristics.*

*Stages of Production.—Extractive Industries, Agriculture—Fishing, Forestry, Mining, etc., Manufacture. Laws of Diminishing Returns and Increasing Returns. Transport and Commerce, local, intranational and international. Money, credit and insurance as auxiliaries to production.*

*Mechanism of Exchange.—Origin and functions of money. Metallic Coinage. Functions of Banks. Fiduciary money and money substitutes (Treasury notes, bank notes, cheques, bills of exchange). The rupee, Indian Exchange.*

*Exchange Value.—Theory of Value, Equilibrium between Demand and Supply. Market value and normal value. 'Value of Money' meanings of phrase. Variations in value of money.*

*Distribution of Wealth.—The Share of Lands, Rent. Supply and Demand in relation to Land. The Ricardian Law of Rent. Economic Rent, Customary Rent, Rack-rent. The sharing of Economic rent in India.*

*The Share of Labour.—(a) Wages. Supply and Demand in relation to Labour. Theories of wages (a) Minimum subsistence, (b) Standard of life, (c) Marginal productivity. Combinations of employers and employees in relation to wages.*

*(b) Salaries.—Supply and Demand in relation to acquired knowledge and skill and exceptional ability.*



*The Share of Capital: Interest.*—Supply and Demand in relation to Capital. The accumulation of capital. Conversion of capital from unspecialized to specialized forms. Interest on loanable capital. Interest on investments. Capitalization. Promotion.

*The Share of Enterprise: Profits.*—Supply and Demand in relation to Business Organization. Profits and the Entrepreneur.

*The Share of the State: Taxation.*—The community as worker and sharer in the product. Duties and Expenses of Government. Forms of Taxation. Protection and Free Trade.

(5) SYLLABUS IN ECONOMICS FOR GROUP (V-B)

**A. ECONOMICS GENERAL** (*A general survey of an elementary character, based on the Syllabus prescribed for Group (V-A).*)

*Books recommended for 3 and 4—*

Marshall: Economics of Industry.

Clay: Economics for the General Reader.

Briggs: A Text-book of Economics.

Banerjee: A Study of Indian Economics.

Moreland's Introduction to Indian Economics.

**B. ECONOMIC SPECIAL**—Any two of the following subjects.

1. *Banking and Currency* (includes money, credit, foreign exchanges and prices).

*Books recommended—*

Withers: The Meaning of Money.

Todd: The Mechanism of Exchange.

Dunbar: The Theory and History of Banking.

Jevons: Money, Exchange, and Banking in India.

2. *Public Finance* (includes the economic functions of the State, the raising and spending of taxes and public loans and the regulation of tariffs).

*Books recommended—*

Armitage Smith: Principles and Methods of Taxation.

Robinson: Public Finance (Cambridge Economic Handbooks).

Dalton: Public Finance.

**Alston: Elements of Indian Taxation.**

**3. Labour Problems (includes trade unionism, socialism, labour legislation, and welfare work).**

*Books recommended—*

**O'Brien: Labour Organization.**

**Russell: Roads to Freedom.**

**Broughton: Labour in Indian Industries.**

**Kidd: Indian Factory Legislation.**

**Report of the Indian Industrial Commission, 1916—18.**

**4. Indian Land Tenures (includes the development and main features of the principal systems of land tenure in India).**

*Books recommended—*

**Baden-Powell: Short Account of the Land Revenue and its Administration.**

**Land Revenue Resolution of the Government of India (1902) and connected papers.**

**Kale: History of the Administration of East India Company, Part II., Chapters I—III.**

**5. Rural Economics (includes the organisation and financing of agriculture with special reference to the co-operative movement in relation to agriculture).**

*Books recommended—*

**Carver: Agricultural Economics.**

**Keatinge: Agricultural Progress in Western India.**

**Keatinge: Rural Economy in the Bombay Deccan.**

**Hemingway: Madras Manual of Co-operation. (Introduction).**

**Matthai: Agricultural Co-operation in India.**

**(6) SYLLABUS IN MODERN HISTORY FOR GROUP (V-B)**

***Modern History, 1500—1878***

In addition to a knowledge of the development of the European State System as set forth in the Syllabus, a knowledge of the origin and working of the constitutions of the chief countries will be required, viz., of England and Switzerland and, after 1870, of

France, Germany, Italy and the British Commonwealth. Books recommended for the study of the constitutions:—

For England, Switzerland, France, Germany and Italy:—

(1) Ogg: "Government of Europe" or, Lowell: "Greater European Governments."

(2) Herman Finnes—"Foreign Government at work" (World of To-day Series, Clarendon Press).

For the British Commonwealth:—

(1) H. Duncan Hall—"The British Commonwealth of Nations."

(2) A. B. Keith: "Dominion Home Rule in Practice."  
(World of To-day Series, Clarendon Press.)

(1) *Introduction*—

Features of Mediaeval Europe:—Papacy—Empire—Feudalism—their decay. Decline of Byzantine Empire.

The New Age:—Renaissance—Reformation—Maritime discoveries—Transfer of political power to Atlantic States—Spain—Portugal—France—Holland—England.

(2) *Sixteenth century*—

Supremacy of Spain under the Hapsburgs.

The development of the Hapsburg power and its extent under Charles V and Philip II. Its challenge to Europe:—

(a) France, (b) Germany, (c) Netherlands, (d) England, (e) Turkey.

The relation of the Reformation and Counter-Reformation to the struggle.

(3) *Seventeenth century*.

(A) Ascendancy of France.

(i) Henry IV—Richelieu—Mazarin.

Opportunity afforded by religious struggle in Germany.

(ii) France under Louis XIV—His system of Alliances—

Sweden—Turkey—England. The challenge to Europe:—

(a) Holland, (b) Spain, (c) The Empire, (d) England,

**(B) Northern Europe.**

Ascendancy of Sweden under House of Vasa. Her challenge to North Europe—(a) Denmark, (b) The Empire, (c) Poland, (d) Russia.

**(C) South-Eastern Europe.**

Revival of Turkish Power—its relation to Western politics—its challenge to Austria and Poland. Position of Turkey at close of century.

**(4) Eighteenth century—**

The rise of England—Prussia—Russia.

(A) *England*—Her position in Europe and overseas after Treaty of Utrecht. Expansion and challenge to (a) France and Spain, (b) Holland.

(B) *Prussia*.—Her position under Frederick II. His challenge to Austria—and German Princes—Relations with France—Russia—England.

(C) *Russia*.—Her position in Baltic after Treaty of Ny-stadt. Her challenge to (a) Germany, (b) Poland, (c) Turkey.

**(5) French Revolution—**

(A) It causes, characteristics and course.—Its challenge to Europe:—

(a) The Empire (Netherlands, Germany and Italy), (b) England.

(B) The Napoleonic Empire.

Its rise and development—its challenge to Europe:—

(a) The Empire, (b) England, (c) Russia, (d) Spain.

(e) Portugal. Its overthrow—Congress of Vienna.

**(6) Nineteenth century—**

The challenge of Vienna to Liberalism and Nationality. Influence of Metternich.

(A) *Liberal movements*—

(i) 1815—1825. Germany—Spain—Italy. Suppression by Quadruple Alliance.

(ii) 1830. Revolution in France and its consequences in Belgium—Poland—Germany—Italy—Spain—England.

(iii) 1848. Revolution in France and its consequences in Austria—Hungary—Italy—Prussia—England—Collapse and re-action. Fall of Metternich—establishment of the Second Empire in France.

(B) *National movements—*

(i) Union of Italy.

(ii) Unification of Germany and the establishment of the German Empire—the French Republic.

(C) *The Eastern Question—*

Russia's challenge to Turkey—Anglo-French support to Turkey.

(i) War of Greek Independence.

(ii) Turko-Egyptian War.

(iii) Crimean War.

(iv) Balkan Risings and Russo-Turkish War. Congress Berlin.

*Books recommended for study—*

1. Lowell's Greater European Governments.

2. Keith's Dominion Home Rule in Practice.

3. Finner-Foreign Governments at Work (World of to-day series, Oxford).

4. (a) Ogg—The Governments of Europe.

(b) Keith—The Constitution, Administration and Laws of the Empire.

(c) Bryce—Modern Democracies.

### **Sanskrit**

(7) SYLLABUS FOR SANSKRIT GRAMMAR FOR GROUP (vi)—LANGUAGES OTHER THAN ENGLISH

*Sanskrit.*

The same as for B.A. Group (v) under the new Regulations. (Vide Appendix III).

- (8) *Syllabus for the Comparative Grammar of the Dravidian Languages for Group (vi).*

The same as for B.A. Group (v) under the new Regulations.  
(Vide Appendix III).

- (9) *Related Subject:—The Dravidian Languages: Syllabus for Early South Indian History.*

The same as for B.A. Group (v) under the new Regulations.  
(Vide Appendix III).

- (10) *Syllabus for the Comparative Grammar of the Dravidian Languages for Group (vi).*

The same as for B.A. Group (v) under the New Regulations  
(Vide Appendix III).

- (11) *Syllabus for the History of the respective Dravidian Languages—Tamil, Telugu, Kanarese and Malayalam.*

The same as for B.A. Group (v) under the new Regulations  
(Vide Appendix III).

## B. A. DEGREE EXAMINATION

### ENGLISH

#### PART I

1929

*For Detailed Study—*

Shakespeare: *Macbeth*; Henry IV, Part I.

Milton: *Comus*.

The following Selections from 'A Book of Verse from Langland to 'Kipling' edited by J. C. Smith:—

1. Pope: *Epistle to Arbuthnot*.
2. Keats: *Ode on a Grecian Urn* and *The Eve of St. Agnes*.
3. Arnold: *Thyrsis*.

4. A. C. Swinburne: Choruses from 'Atlanta' and 'Erechtheus'.

5. Thompson: The Hound of Heaven.

6. Browning: Abt Vogler.

*17th and 18th Century Prose—*

Johnson's Rassellas.

Burke: The Bristol Address.

Sheridan: The Rivals.

*19th Century Prose—*

Morley: Select Essays. (Macmillan and Co.).

Frederick Harrison's Essays or Select Essays from R. L. Stevenson Ed. by H. G. Rawlinson.

*For Non-detailed Study—*

Thackeray: Pendennis.

Meredith: *Short Stories*.

Trevelyan. Garibaldi and the Making of Italy (Nelson & Co.)

## PHYSICAL SCIENCE

### PART II.

1929

GROUPS (ii-A) & (ii-B).

(ii-A)

#### Physics—

Wagstaff: Properties of Matter (Clive).

Edser: General Physics (Macmillan).

Poynting and Thompson: Sound (Griffin).

Catchpool: Sound (Clive).

Capstick: Sound (Cambridge University Press).

Edser: Heat (Macmillan).

Edser: Light (Macmillan).

Hadley: Electricity and Magnetism (Macmillan).

Brooks and Poyses: Electricity and Magnetism (Longmans).

Whetham: Experimental Electricity (Cambridge University Press).

Schuster and Lees: Practical Physics (Cambridge University Press).

Allen and Moore: Text-book of Practical Physics (Macmillan).

*Reference—*

Porter: Intermediate Course in Mechanics (Murray).

Scarle: Experimental Elasticity (Cambridge University Press).

Poynting and Thomson: Heat (Griffin).

Clay: Treatise on Practical Light (Macmillan).

Watson: Practical Physics (Longmans).

*Chemistry—*

Smith: Introduction to Inorganic Chemistry (Bell).

Senter: Outlines of Physical Chemistry (Methuen).

Thorp: History of Chemistry, 2 Volumes (Watts).

Fenton: Notes on Qualitative Analysis (Cambridge University Press).

Hooton: Qualitative and Volumetric Analysis (Edward Arnold).

Thorp: Inorganic Chemical Preparations (Ginn).

Partington: Text-book of Inorganic Chemistry (Macmillan).

Lowry: Historical Introduction to Chemistry (Macmillan).

Lowry: Text-book of Inorganic chemistry (Macmillan).



## GROUP (11-B)

*Chemistry—*

Partington: Text-book of Inorganic Chemistry (Macmillan).

Mellor: Modern Inorganic Chemistry (Longmans).

Caven and Lander: Systematic Inorganic Chemistry (Blackie).

Senter: Outlines of Physical Chemistry (Methuen).

Fenton: Outlines of Chemistry, Part I (Cambridge University Press).

Thorp: History of Chemistry. 2 Volumes (Watts).

Caven: Systematic Qualitative Analysis (Blackie).

Cumming and Kay: Quantitative Chemical Analysis (Gurney).

Thorp: Inorganic Chemical Preparations (Ginn).

Cohen: Practical Organic Chemistry for Advanced Students (Macmillan).

Weston: Detection of Carbon Compounds (Longmans).

Perkin and Kipping: Organic Chemistry (Chambers).

Moureu: Fundamental Principles of Organic Chemistry (Bell).

Coward and Perkins: Exercises in Chemical Calculations (Arnold).

*Reference—*

Walker: Introduction to Physical Chemistry (Macmillan).

Russell: Chemistry of Radio-active Substances (Murray).

*Physics—*

Wagstaff: Properties of Matter (Clive), omitting Chapter IX, X, XII and XIV.

Edser: Heat (Macmillan).

Edser: Light (Macmillan).

Brooks and Poyser: Electricity and Magnetism (Longmans).

Schuster and Lees: Practical Physics (Cambridge University Press).

Allen and Moore: Text-book of Practical Physics (Macmillan).

## NATURAL SCIENCE

Group iii.

PART II.

1929.

## BOTANY

*Books for reference—*

Coultoer, Barnes and Cowles: Text-book of Botany.

Ganong: Text-book of Plant Physiology.

Bower: The Living plant.

Strasburgher: Text-book of Botany.

## ZOOLOGY.

*Main*

*Theory—*

1. Parker and Haswell: Text-book of Zoology—2 Vols. (Macmillan).
2. Shipley and MacBride: Text-book of Zoology—2 Vols. (Cambridge University Press).
3. Borradaile: Manual of Zoology (Oxford University Press.)
4. Bourne (G.G.): Comparative Anatomy of Animals 2 Vols. (George Bell & Sons).
5. Graham Kerr: Evolution (Macmillan).

*Practical—*

1. Marshall: The Frog. (Macmillan).
2. Marshall and Hurst: Practical Zoology (Smith Elder & Co.).

*Reference—*

1. Sedgwick (A): Student's Text-book of Zoology—3 Vols. (Swan Sonnenschein).
2. Lang (A): Text-book of Comparative Anatomy—2 Vols. (Macmillan).
3. Weidersheim: Elements of the comparative Anatomy of Vertebrates (Macmillan).

4. Borradaile: *Animal Life and its Environment* (Henry Frowde and Hodder and Stoughton).
5. Reynolds (H.): *Vertebrate Skeleton* (Cambridge University Press).

*Subsidiary.*

**Theory—**

1. Shipley and MacBride: *Text-book of Zoology* (Cambridge University Press).
2. Borradaile: *Manual of Zoology* (Oxford University Press).
3. Lull: *Organic Evolution* (Macmillan).

**Practical—**

1. Marshall: *The Frog* (Macmillan).

## PHILOSOPHY

GROUP (iv)

### PART II.

1929.

Text-books recommended—

(1) Creighton's 'Introductory Logic' (especially Part III) and Bosanquet's *Essentials of Logic*.

(2) R. S. Woodworth's 'Psychology—A Study of Mental Life'; (Methuen).

(3) Dewey and Tufts: *Ethics*, Chapters i-v, viii-xx, xxvi.

Philosophical work prescribed—

Kants' *Fundamental Principles of the Metaphysic Ethics*, translated by Abbot (Longmans).

## HISTORY

THE DRAVIDIAN LANGUAGES

GROUP (vi)

RELATED SUBJECTS.

1929.

### Dravidian Languages

Early South Indian History, the part prescribed in Chapters I to XVIII of the Syllabus, *vide* Appendix III.

## SANSKRIT

1929, 1930 and 1931

Early History of India to the beginning of the present era  
(i.e., Christian era).

### *Books recommended—*

E. J. Rapson: Ancient India (Cambridge University Press).

V. A. Smith: Early History of India.

Dr. Macdonell's India's Past (from 1930 onwards).

## Marathi

The History of the Marathas upto 1720.

### *Books recommended—*

M. G. Ranade : Rise of the Maratha Power  
Grant Duff : History of the Marathas  
(Calcutta, 1912)

{ New Kitab-  
Khana, Poona  
City or Messrs.  
Parachure  
Puranick & Co.  
Madhav Bhag,  
Bombay.

## Oriya

The History of Orissa under Native and Muhammadan Rule.

### *Book recommended—*

W. W. Hunter: Orissa.

## Latin

The History of Rome: The Second Century B.C.

## French

European History, 1715—1815.

## Arabic and Persian

The four successors of the Prophet and the Umayyiahs.

## Urdu

The whole of the Mughal period of Indian History from  
1526 to 1707.

## SYRIAC

The History of the orthodox Eastern Church and the minor Eastern Churches.

## LANGUAGES OTHER THAN ENGLISH. SANSKRIT

1929, 1930 and 1931.

### GROUP (iv)

Kṛṣṇa-Miśra : Prabōdhacandrōdaya.

Cchāndōgyōpaniṣad—Adhyāya VII.

### GROUP (v)

A. A. Macdonell : Vēdic Reader, I to VIII hymns.

Kālidāsa : Raghuvamśa, Cantos IV and VI.

Madhurāvijayam, by Gaṅgādevī, Cantos 1 to 4 (The Agent, Government Sanskrit Publications, Chalai, Trivandrum).

### GROUP (vi)

(a) A. A. Macdonell : Vēdic Reader, I to VIII hymns.

Āitarēya-brāhmaṇa, VIII, ii, iii, (Nirnaya Sagara Press, Bombay).

Gautama Dharma Sūtra—Prasna I—Text only, Bibliotheca Sanskrita (Government Press, Mysore).

Cchāndōgyōpaniṣad—Adhyāya VII.

(b) Bhavabhūti-Uttararāmacarita

Kṛṣṇa-Miśra : Prabōdhacandrōdaya } (Nirnaya Sagara Press,  
Bana : Harṣacarita, Uccvāsa III } Bombay).

Patañjali : Mahābhāṣya I, i, i.

Mahābhārata, Sāntiparva—Adhyāyas 177 to 182 (Madhya Vilas Book Depot, Kumbakonam).

Nīlakaṇṭha Vijaya by Nīlakaṇṭha Dīkṣita, Uccvāsa I only (The Proprietor, Balamanerama Press, Mysore).

### RELATED LANGUAGE

Bhavabhūti-Uttararāmacarita.

Raghuvamśa, Cantos IV and V.

**MARATHI**

1929.

## GROUP (iv)

Atma Vidyā by Godbole.

Dr. Bhāndarkar's Religious Essays.

## GROUP (v)

Sivachhatrapati's Life, by Sabhāsada.

Samsāra Kartavya, by D. N. Nabar, B.A., LL.B., pages 1-106.

## GROUP (vi)

Sivachhatrapati's Life by Sabhāsada.

Dr. Bhāndarkar's Religious Essays.

Atma Vidyā by Godbole.

Moreopant : Brihaddasam, Pūrvārdha, Chapters I-X.

Nāma Sudhā by Vāman, Edited by B. A. Bhide, B.A.

Arvachin kavita (Pūrvārdha) compiled by C. S. Gorhe, pages 1-122. (Published by Damodar Savala Ram &amp; Mandali Bombay).

N. B.—All these books of Groups iv, v and vi can be had from New Kitabkhana, Bodhwarpet, Poona City; Chitrakulam Press, Poona City; also from Messrs. Parachure Puranik & Co., "Mādhav Bāg," Bombay.

Dr. Macdonald's India's Past (from 1930 onwards).

**ORIYA**

1929.

## GROUP (iv)

Kiskindhyā Kānda—Rāmāyana, by Kṛṣṇa Caran Patnalk (Printing Company, Cuttack).

Mukunda Deb Nāṭaka, by Godavareesa Misro (Students' Stores, Satyabadi)

Prabhāta, by Chandrasēkhara Nanda.

Bhāgavata Ekādasaskandha by Jagannatha Das.

Raghuvamsa (18th Sarga), by Rajakisore Mahanty.

Trading Company,  
(Cuttack).

## GROUP (v)

- |  |                                  |
|--|----------------------------------|
| Kōṇārka—Chapters 1 to 7, by Kṛpasin-<br>dhu Misra.                               | } Trading Company,<br>(Cuttack). |
| History of Gumsur, by Tūrini Charan<br>Ratho.                                    |                                  |
| Vidagdha Cintāmani (Canto 78, pp. 215<br>—218), by Abhimanyu Samanta<br>Simhāra. |                                  |
|  |                                  |

## GROUP (vi)

- |   |                                  |
|---|----------------------------------|
| Pāncālī Patapaharana, by Sri Radha-<br>mohana Rajendra Deb.                     | } (Trading Company,<br>Cuttack). |
| Kōnurkē (Māyādevī, pp. 67 to the end),<br>by Neelakantha Das.                   |                                  |
| Vidagdha Cintāmani (Canto 78, pp.<br>215—218), by Abhimanyu Sāmanta<br>Simhāra. |                                  |
| Bhāgavata (Pancama Skandha), by<br>Jagannatha Das.                              |                                  |

Unmatta Rāghava, by Pandit Gopinath Nanda Sarma (Utkā  
Sahitya Press, Cuttack).

Kṛṣṇa Kānda,—Rāmāyana, by Kṛṣṇa Caran Patnaik  
(Printing Company, Cuttack).

Vibidha Prabandha, by Viswanath Kar (Utkal Sahitya Press,  
Cuttack).

## LATIN

1929.

## GROUP (iv)

Cicero : De Officiis.

## GROUP (v)

## GROUP (vi)

Virgil: Georgics IV and Eclogues I—III.

Horace: Odes III, 1-20.

Juvenal: Satires VII and X.

Livy: History Book V.

Cicero: De Officiis.

Tacitus: Annals I.

**FRENCH**

**1929.**

**GROUP (iv)**

Ollé-Laprune : De la Certitude Morale (Belin Frères, Paris).

**GROUP (v)**

**A. Vandal: L'Avénement de Bonaparte (Nelson & Co.).**

**GROUP (vi)**

**Cornelle: Horace. Edited by Saintsbury (Clarendon Press).**

Molière : Le Malade Imaginaire (Macmillan).

Oxford Book of French Verse (Clarendon Press).

Emile Faguet : Ce que disent les Livres (Cambridge University Press).

Ollé-Laprune : De la Certitude Morale. (Belin Frères Paris.)

**A. Vandal : L'Avénement de Bonaparte (Nelson & Co.)**

**ARABIC**

**1929.**

**GROUP (iv)**

Faslul-Maqāl by Ibnī-Rushd.

Sab'lu-Sa'adah.

Sab'i-Mu'allaqat—the first three Qasidahs.

**GROUP (v)**

Muqaddimah of Ibnī-Khaldun—First half.

Sannājatut-Tarab Fi Taqaddumātīl Arab.

Al-Hamāsa-Babul Hamāsa.

**GROUP (vi)**

Maqāmat-i-Harīrī—First 14 Maqamahs.

Sab'i-Mu'allāqāt—the first two Qasidahs.

Al'Umdah by Ibnī Rāshīq, Vol. I.

Majāni-ul-Adab, Vol. IV.

*Related Language*

Majāni-ul-Adab, Vol. IV.



**PERSIAN****1929****GROUP (iv)**

Zādul Musāfirin—First half.

Mathnaw; Maulana Rūm—First Daftar.

**GROUP (v)**

Tārīkh-i-Jahānkushāyi—Nādiri.

Siyarul-Mutha'akhhirīn—First half.

**GROUP (vi)**

Rumūzi-Bay Khudī by Sir Iqbāl.

Majnūn Laylā by Khusrāw—Aligadh Edition.

Abul Faḍal—First Daftar.

Punjab University B. A. course in Persian of 1926.

*Related Language*

Punjab University B. A. course in Persian of 1926.

**URDU****1929****GROUP (iv)**

Rūhul-Ijtima.

Mukālamāti—Berkeley.

Falsafai-Jadhabāt.

**GROUP (v)**

Darbār-i-Akbari.

Tārīkh-i-Tamaddun. Vol. I.

**GROUP (vi)**

Rasā'il-i-Shiblī.

Kulliyāti-Akbar. Vol. .

I'jāzī-'Ishq (Zamīmah).

Nigāristān by Niyāz.

Inshā-i-Bahārī Bay Khizdn.

Books recommended for study in Grammar, Rhetoric.

Prosody and History of Literature :—

Qawa'id-i-Urdu by Abdul Haq.

Talkhisi-'Arúz-o-Qáfiyah by Tabátábai

Tashfiul-Balághat.

The influence of English Literature upon Urdu Literature by  
Dr. S. A. Latif.

All books are available at Islamiah Book Depot, Kurnool

## SYRIAC

1929

### GROUP (iv)

1. Saphrō d'Kohnac (Syriac Pentateuch) B, and F, Bible Society.
2. Egartho d'Iovth Ebroyae do.
3. Segtho d'Slecbo (Mar Thoma Press, Kottayam).

### GROUP (v)

1. Saphrō d'Mazmoorac (Bible Society).
2. Upoyo d'Thloyae (Mar Thoma Press, Kottayam).
3. Thesmeshto d'Denho do do.
4. Thesmeshto d'Pentecostec do. do.

### GROUP (vi)

1. Sepro d'Breetho (Syriac Pentateuch).
2. Sepro d'Mafqono do.
3. Praksis d'Sleehae (Peshitto).
4. Bar Hebraeus : Nomo-Canon, Chap. VII.
5. Upoyo d'Grabrac (Mar Thoma Press, Kottayam).
6. Noldeke : Compendious Syriac Grammar (Williams and Norgate, London).

## TAMIL

1929

### GROUPS (iv) AND (v)

*Selections published by the University:—*

#### Part I.

Purananuru, Stanzas 63—312 (pp. 111—126).

**Thirukkural :—**

Payanilacollamai.

Thivineyacham.

Oppuravarital.

Egai.

Pugal.

Amaichchu.

Colvanmai.

Vinaittuiamai.

Vinaithittam.

Mannaralchernthozhugal.

Part II.—Kambaramayanam—Aranyakandam.

**Prose—**

Appar Charitram—K. Subrahmanya Pillai, M.A., M.L., Salva Siddhanta Publishing Co., Madras.

Nakkerar—N. M. Venkataswami Nattar, Bishop Heber College, Trichinopoly.

**GROUP (vi).****Poetry—**

Same as for Groups (iv) and (v).

Perumpanattruppadai, pp. 2-20.

Manimagalai, pp. 301-322.

Kalithogal-Kurinchikali,—E. V. Anantarama Ayyar, 16, Nagapier St., Tiruvateswaranpet, Madras.

**Prose—**

Colankarikalan—Ulaganatha Pillai, Sanskrit College, Tiruvadi.

Kambar—T. Chelvakesavaraya Mudaliar, Perambore.

Sri Manikkavacakar—C. R. Subrahmanya Mudaliyar, B.A., B.L., Coimbatore.

**Grammar—**

Nannul Urai (Sankara Namasivayarurai) Collathigaram by Mahamahopadhyaya V. Swaminatha Ayyar, Tyagaraja Vilas, Tiruvateswaranpet, Madras.

**TELUGU****1929.****GROUP (vi)****A. Poetry: Detailed—**

1. B.A. Selections in Telugu published by the University.  
Vol. 1, No. 7, Kiratarjuniyamu.  
44, Pativratacharitramu-Dharma Vyadhopakhyanam.
2. Krishnaraya Vijayam, cantos 1 and 2.
3. Sringara Kadambari by Chintalapalli Narasimha Sastri,  
canto 5, verses 1 to 247.

**Non-detailed—**

4. Adavi Mollalu by Y. Narayanamoorthy, B.A., Vizianagaram.
5. Tolakari by Pingali Lakshmikantham, B.A., Masulipatam.
6. Sree Krishna Tulabharamu by Potukuchi Subbayya,  
M.A., L.T.

**B. Drama—**

7. Prabodha Chandrodayamu by Vaddadi Subbarayudu, Rajahmundry.

**O. Prose: Detailed—**

8. Andhra Bhagavatamu by Satakantham Venkataranga  
Kavi, Vol. I, pp. 1 to 80.
9. Andhrula Charitra by Chilukuri Veerabhadra Rao, Part  
I, pp. 1 to 102.
10. Prachina Andhranouka jivtacharitram by Bhavaraju  
Venkata Krishna Rao, B.A., B.L., Rajahmundry.

**Non-detailed—**

11. Vidurudu, Andhra Pracharini Grandha Nilayam, Pittapore.

**GROUP (v)**

2, 6, 9, 10, alone from above to be studied.

**GROUP (iv)**

- 1, 6, and Brahmasutrasaramu by Vavilala Venkata Sivavadhani  
Adhyaya 1 alone to be studied.

## **KANARESE**

**1929.**

Groups (iv) & (v).

- (i) Selections published by the University, Vol. II, pp. 61 to 102 (Jagannatha Vijaya) and pp. 147—174 (Kabbl-gara Kava).
- (ii) Mudra Manjusha (Wesleyan Mission Press, Mysore).
- (iii) Kundamala Nataka by B. Rama Rao, M.A., LL.B. (B. M. Nath & Co., Vepery, Madras).
- (iv) Kavicharite by Rao Bahadur R. Narasimhachar, M.A., Vol. II Introduction and Poets of the 15th Century (Author, Malleshwaram, Bangalore City).

GROUP (vi)

- 1. All books prescribed for Groups (iv) and (v) above.
  - 2. Raja Malayasimha, Parts 1 and 2 by M. A. Srinivasachar (Commercial Agency Co., Malleshwaram, Bangalore).
  - 3. Sasana Padyamanjari, by Rao Bahadur R. Narasimhachar, M.A.
  - 4. Kaviraja Marga, by Nripatunga (Government Central Book Depot, Bangalore).
  - 5. Sringera Ratnakara, by Kavi Kama (Kavya Kalanidhi Office, Mysore).
  - 6. Sabdamani Darpana, by Kesi Raja.
  - 7. Chhandassu, by Nagavarma.
- } B. E. M. Book Depot  
Mangalore

## **MALAYALAM**

**1929.**

GROUPS (iv) AND (v)

### **Poetry—**

- 1. Bhishma Parvam—Maha Bharatam by Ezhuthachan—Selections published by the University (B.A.), Part I, Vol. II.
- 2. Kirmmeeravadham—Kathakali. By Kottayath Thampuran.
- 3. Umakeralam—7 and 8 Sargams. By Ullur S. Parameswarar Ayyar, M.A. (B.V. Book Depot, Trivandrum).

**Drama—**

**Uthara Rama Charitham** by C. Chathukutty Mannadiar (Saraswati Vilasam Book Depot, Trichur).

**Prose—**

1. Marthanda Varma by C. V. Raman Pillai, B.A., (B.V. Book Depot, Trivandrum).
2. Sarada—Part I by O. Chandu Menon (Published by K. Madhava Menon, B.A., B.L., Vakil, Chalapuram, Calicut).

**GROUP (vi)**

The same texts as those for Groups (iv) and (v) together with the following additional books:—

1. Ramacharitam—5 to 9 Patalams, both inclusive (B. V. Book Depot, Trivandrum).
2. Kannassa Ramayanam—Balakandam. (The edition published by K. Parameswaran Pillai, M.A., Chief Lecturer Sanskrit, Maharaja's College of Arts, Trivandrum).
3. Krishnagatha—Soubhadrika Katha (Mangalodayam Press, Trichur).

## B.A. DEGREE EXAMINATION ENGLISH

1930.

### PART I

**For detailed study—**

Shakespeare: Henry IV, Part I: Hamlet.

Milton: Comus

Goldsmith: Retaliation.

Keats: Ode to a Nightingale; Ode to Autumn and Selections from Browning in Book V of the Golden Treasury of Songs and Lyrics.

**17th and 18th Century Prose—**

Johnson: Rasselas.

Burke: Letter to a Noble Lord.

Swift: Gulliver's Travels, Parts I and II. Edited by F. W. Payne (University of London Press).

*19th Century Prose—*

Hazlitt: Twenty-two Essays. Edited by A. Reilly, D.C. Heath and Co., (omitting Essays Nos. 5, 6, 7, 8, 9 10 and 19).

Carlyle: Heroes and Hero Worship, Edited by Buller, Volume I, Macmillan & Co., Ltd.

Ruskin: Crown of Wild Olive.

*Non-detailed Study—*

Gissing: Charles Dickens. Blackie & Sons.

Dickens: The Pickwick Papers.

Representative Short Stories (1800-1924) Longmans, Green & Co., Ltd., 1926.

Note: (1) The Selections from Browning are in the Edition of the Golden Treasury "with a Supplementary Fifth Book selected, arranged and annotated by Laurence Binyon".

(2) Ruskin's "Crown of Wild Olive" is the Earlier Edition with only three Lectures—Those on work, Traffic and War. It does not include the lecture on "The future of England".

## PHYSICAL SCIENCE.

## PART II

1930

GROUP (ii-A) AND (ii-B).

## PHYSICS

The same as for 1929.

GROUP (ii-A).

*Chemistry—*

Smith—Introduction to Inorganic Chemistry, (Bell).

Senter—Outlines of Physical Chemistry, (Matluen).

Barrett, W. H.—Elementary Physical Chemistry, (Ed. Arnold).

Thorp—History of Chemistry, 2 Volumes, (Watts).

Caven—Quantitative Chemical Analysis Part I, (Blackie).

Thorp—Inorganic Chemical Preparations, (Ginn).

*Reference—*

- Partington—Text-book of Inorganic Chemistry, (Macmillan).  
Lowry—Historical Introduction to Chemistry, (Macmillan).  
Taylor—Practical Physical Chemistry, (O. U. P.).

**GROUP (II-B).**

*Chemistry—*

- Partington—Text-book of Inorganic Chemistry, (Macmillan).  
Mellor—Modern Inorganic Chemistry, (Longmans).  
Caven & Lander—Systematic Inorganic Chemistry, (Blackie).  
Senter—Outlines of Physical Chemistry, (Methuen).  
Taylor—Practical Physical Chemistry, (O. U. P.).  
Fenton—Outlines of Chemistry, Part I, (C. U. F.).  
Thorp—History of Chemistry, 2 Volumes, (Watts).  
Caven—Systematic Qualitative Analysis, (Blackie).  
Caven—Quantitative Chemical Analysis, Parts 1 and 2,  
(Blackie).  
Thorp—Inorganic Chemical Preparations, (Ginn).  
Cohen—Practical Inorganic Chemistry for Advanced Students  
(Macmillan).  
Weston—Detection of carbon compounds, (Longmans).  
Perkin & Kipping—Organic Chemistry, (Chambers).  
Moureu—Fundamental Principles of Organic Chemistry,  
(Bell).  
Coward and Perkins—Exercises in Chemical Calculations,  
(Arnold).

*Reference—*

- Walker—Introduction to Physical Chemistry, (Macmillan).  
Russel—Chemistry of Radio-active substances, (Murray).  
Lowry—Text-book of Inorganic Chemistry, (Macmillan).

**NATURAL SCIENCE**

**1930.**

**GROUP (iii).**

**BOTANY**

**The same as for 1929.**



**ZOOLOGY**

Main and Subsidiary.

1930.

Same as for 1929 with the following addition.

*B.A. (Subsidiary) Zoology:*—to the books already recommended add:—

(Under Theory) College Zoology: Hegner (Macmillan and Co., New York.)

(Under Practical) Practical Zoology: Marshall and Hurst.

*B.A. (Main) Zoology:*—

(Under Reference) Biology of the Frog—Holmes.

**PHILOSOPHY**

1930.

GROUP (iv)

PART II.

Text-books recommended—

Text-books recommended:—

- (1) Creighton's 'Introductory Logic' (especially Part III) and Bosanquet's 'Essentials of Logic.'
- (2) R. S. Woodworth's 'Psychology—A study of Mental Life' (Methuen).
- (3) Dewey and Tufts: Ethics, Chapter i-v, viii-xx, xxvi.
- (4) Philosophical work prescribed—

Leibniz: The Monadology.

**HISTORY****THE DRAYIDIAN LANGUAGES**

GROUP (vi)

Related Subjects.

1930.

The same as for 1929.

**SANSKRIT, MARATHI, ORIYA, LATIN AND FRENCH**

1930.

The same as for 1929.

**ARABIC AND PERSIAN**

**1930.**

The Umayyad Caliphs.

**URDU**

The Later Three Mughals.

**LANGUAGES OTHER THAN ENGLISH  
SANSKRIT**

**1930.**

GROUPS (iv) & (v).

The same as for 1929.

GROUP (vi)

As main language and as related language same as for 1929.

RELATED LANGUAGE

**1930.**

The same as for 1929.

**MARATHI**

**1930.**

GROUP (iv).

*Poetry—*

Rasatarangini by S. V. Pendse, B.A., etc., pages 398—456.

*Drama—*

Sakuntalá Náṭak by Laxman Shastri Lele.

*Prose—*

Vyākhyāṇe by Sir N. G. Chandāvarkar.

GROUP (v).

The same as for Group (iv).

GROUP (vi).

*Poetry—*

Rasatarangini by S. V. Pendse, B.A., etc., pages 398—456.

Krishna Vijaya by Moropant : (Uttarārdha) Chapters 50—57.

**Drama—**

Sakuntalā by Laxman Shastri Lele.

**Prose—**

Vyākhyāne by Sir N. G. Chandāvarkar.

Life of Thorale Shahu Mahārāj by M. R. Chitnis.

Nibandha Sangraha—Grantha Dusrā—Sri Laxminarayau Press,  
Bombay, pages 1—258.

**ORIYA**

**1930.**

GROUPS (iv), (v) & (vi).

Same as for 1929.

**LATIN**

**1930.**

GROUPS (iv), (v) & (vi).

The same as for 1929 except that under Group (v) and (vi)  
Tacitus, Agricola and Germania are submitted for Tacitus,  
Annals I.

**FRENCH**

**1930.**

GROUPS (iv), (v) & (vi)

The same as for 1929.

**ARABIC**

**1930.**

GROUP (iv)

Asrārush-Shari 'at-il-Islāmiah.

Jamālul-'Alum.

Diwān-l-'Umar b. al-Fāriq—First four Qasidas.

GROUP (v)

Tārīkhul-Umamīl-Islāmiah by Alkhizari.

Al-M' 'arif by Ibni Qubaybah.

Diwani Hassān b. Thābit.

## GROUP (vi)

Tàrikhu-Âdâbil Lughat-il-' Arabiyyah, Part 1.

Maqâmât by Al-Zamakhsharî.

Al-Mufaḍḍaliyyât by Al-Dabbi (1st ten Qasidas).

Jumharatu-Ash 'aril 'arab.

*Related Language—*

Tàrikhu-' Adâbil-Lughah.

**PERSIAN**

1930.

## GROUP (iv)

Asrâri Khudî.

Mathnavi Maulana Rûm, First half Daftar.

Siyâsat Namah.

## GROUP (v)

Irân Nâmeh, Part I excluding old Persian.

Shâh Nâmeh—Sohrab-Rustum—Siyaush and Nushayrawan.

## GROUP (vi)

Safar Nâmeh-Nâsir Khusraw.

Siyâhat Nâmeh-i-Ibrâhîm Beg, first 100 pages.

Sikandar Nâmeh, first half.

Rumûzi Bay Khudî.

*Related Language—*

Safar Nâmeh.

**URDU**

1930.

## GROUP (iv)

Hikmat-i-' A malî, first 300 pages

Ma'arîjuddin.

Diwan-i-Ghâlib.

## GROUP (v)

Târikhud Dawlatayn by Niyâz.

Alfârûq.

Qasâid-i Zauq.

**GROUP (vi)**

Haqaiyiq-i-Islam.

Shi'rul Hind, Part I.

Nafhut-Tib.

Kulliyat-i-Iqbal by Abdul Razzaq.

Zamimah 'Ijaz-i-'Ishq.

The following books are recommended for Grammar, etc.—

Qawā'id-Urdu by Abdul Haq.

Tashilul-Balaghāt.

All books are available at Istamiah Book Depot, Kurnool.

**TAMIL**

1930.

GROUPS (iv), (v) & (vi)

The same as for 1930.

**TELOGU**

1930.

GROUPS (iv), (v) & (vi)

The same as for 1929.

**KANARESE**

1930.

Groups (iv) & (v).

(i) Selections published by the University—Volume II. Chandraprabha Purana (pp. 103 to 146).

(ii) Ramashwamedha (modernized), Part I, by M. Shankara Bhatta (Bala Sahitya Mandala, Mangalore).

(iii) Viddyullata by N. Tirumalamma (Sati Hitalshini Granthamala Office, Nanjangud).

(iv) Sakuntala Nataka by Basappa Sastri (M. S. Rao & Co., Avenue Road, Bangalore City).

(v) Kavi Charitre by Rao Bahadur R. Narasir  
Volume II, Introduction and Poets of the 16th Century (Author, Malleshwaram, Bangalore).

**GROUP (vi)**

- (i) All books prescribed for groups (iv & v).
- (ii) Sasana Padayamanjari by Rao Bahadur R. Narasimha-char, M.A., (Malleshwaram, Bangalore).
- (iii) Apratima vira charite by Tirumalarya (Kavya Kalanidhi Office, Mysore).
- (iv) Sringara Ratnakara by Kavi Kama (Kavya Kalanidhi Office, Mysore).
- (v) Sabdamani Darpana by Kesiraja (B. E. M. Book Depot, Mangalore).
- (vi) Chhandassu by Nagavarma (B. E. M. Book Depot, Mangalore).
- (vii) Primrosa Vijaya by S. G. Govindaraja Ayyangar (M. S. Rao & Co., Avenue Road, Bangalore).

**MALAYALAM**

1930

GROUPS (iv), (v) and (vi).

The same as for 1929.

**B. A. Degree Examination.**

ENGLISH.

1931

Shakespeare: *Hamlet*, *Much ado about Nothing*.**Modern Poetry—**Milton: *Lycidas*.Wordsworth: *Tintern Abbey*.Shelley: *Adonais*.Browning: *Andrea del Sarto*.Rossetti: *The Blessed Damozel*.Published in *Pattern Poetry III*—Thomas Nelson & Sons and the following selections from"A third book of *Modern Poetry*", Edited by H. Treble—  
(Macmillan & Co.).

**Nos. II, V, VII, XIII, XV, XVII.**

**17th and 18th Century Prose—**

**Swift: Gulliver's Travels, Parts I and II—**

**University of London Press.**

**Burke: Letter to a Noble Lord.**

**Johnson: Prose Selections in Johnson Prose and Poetry—**  
**(Oxford University Press).**

**19th Century Prose—**

**Hazlitt: Twenty-two Essays, Edited by Beatty Heath & Co.**  
**(Omitting Essays Nos. 5, 6, 7, 8, 9, 10 and 19).**

**Newman: Literary Selections. (Longman's Green & Co.,**  
**Indian University Ed.).**

**Arnold: Selections. Edited by H. W. Rawlinson—Macmillan**  
**and Co.**

**Non-detailed Study—**

**Jane Austen: *Emma*.**

**Hardy: *Far from the Madding Crowd*.**

**Select English Short Stories. Third Series (World's Classics).**

**PHYSICAL SCIENCE.**

**1931**

**GROUPS. (ii-A) & (ii-B).**

**The same as for 1931 under the New Regulations.**

**NATURAL SCIENCE.**

**1931**

**The same as for 1931 under the New Regulations.**

**PHILOSOPHY, PSYCHOLOGY, LOGIC AND ETHICS.**

**1931**

- |      |                       |
|------|-----------------------|
| 1. } |                       |
| 2. } | The same as for 1930. |
| 3. } |                       |

4. **Philosophical Work prescribed: Berkeley's Principles of Human Knowledge,**

SANSKRIT.

1931.

The same as for 1930.

MARATHI.

1931.

The same as for 1930.

ORIYA.

1931.

The same as for 1930.

LATIN.

1931.

Groups (iv) & (v).

The same as for 1930

GROUP (vi).

The same as for 1931 under the new regulations.

FRENCH.

1931.

Groups (iv) & (v).

The same as for 1930

GROUP (vi).

The same as for 1931 under the new regulations.

ARABIC, PERSIAN AND URDU

1931.

The same as for 1930.

TAMIL.

1931.

The same as for 1930.



**TELUGU.**

**1931.**

**GROUP (iv).**

**Advaitamruta Saramu by Sreshtaluri Krishnaswamiah.**

**GROUP (v).**

- i. **Andhrula Charitramu by Ch. Veerabhadra Rao, Part II.**  
page 1 to 116.
- ii. **Andhra Veerulu by M. Somasekhara Sarma, Prakara-**  
**nams 1 and 2.**
- iii. **Lakshmana Raya Vyasavali by K. V. Lakshmana Rao,**  
**Select Essays bearing on historical topics only.**
- iv. **Prajaswamika Prabhutvamu by Prof. Narasimham of**  
**Arts College, Anantapur.**
- v. **Address on Andhra History and Awakening by the**  
**Hon'ble V. Ramadas Pantulu, (published by V. Rama-**  
**swamy Sastrulu & Sons).**

**GROUP (vi).**

**The same as for 1931 under Part III, Group (v) of the New Regula-**  
**tions**

**KANARESE.**

**1931.**

**The same as for 1930.**

**MALAYALAM.**

**1931.**

**The same as for 1930.**

**FORMS OF ANNUAL CERTIFICATES.**

*I certify that.....has kept three-fourths of the attend-  
ances prescribed by the.....College.....in the  
course of instruction in.....during the year consisting of the following  
terms :—1.....2.....8.....and that his conduct and  
progress have been satisfactory.*

*.....19 .*

**Principal,**

*I certify that.....has kept three-fourths of the attendances prescribed by the.....College.....in the course of instruction in.....during the year consisting of the following terms:—1.....2.....3....., that his conduct and progress have been satisfactory and that he has completed the course of study prescribed for the B.A. Degree Examination.*

.....19 .

*Principal.*

*\*I certify that.....has attended the course of practical instruction in.....for the B.A. Degree Examination at the .....during the year consisting of the following terms:—1.....2.....3.....*

. ....19 .

*Professor or Lecturer*

*\*I certify that.....has attended the course of practical instruction in.....for the B.A. Degree Examination at the .....during the year consisting of the following terms:—1.....2.....3..... and that he has satisfactorily completed the course.*

.....19 .

*Professor or Lecturer.*

*\*These certificates have to be produced only by candidates in Groups (i), (ii) & (iii).*

**B.A. DEGREE EXAMINATION**  
**ENGLISH LANGUAGE AND LITERATURE**

Days	Hours	Subjects	Marks
First day ...	10—1	Composition ...	90
Second day...	10-12-30	Nineteenth Century Prose ...	60
Third day ...	10—1	Shakespeare ...	70
Fourth day...	10-12-30	Seventeenth and Eighteenth Century Prose ...	60
Fifth day ...	10-12-30	Modern Poetry ...	60
Total ...			340

**OPTIONAL GROUPS.**

**(i) MATHEMATICS\***

Days	Hours	Subjects	Marks
Sixth day ...	10—1	Algebra and Trigonometry ...	90
Seventh day	10—12	Dynamics ...	60
	2—4	Astronomy ...	60

\* For combined time-table for Examinations for the B. A. Degree, Groups (i), (ii) and (iii) and for the B. Sc. Degree Part II, see pages 959-961.

For Scheme of Examinations for the B. A. Degree, Groups (i), (ii) and (iii) and for the B. Sc. Degree Part I having common papers and Examinations, see pages 962-965.

**OPTIONAL GROUPS—contd.**

**(i) MATHEMATICS—contd.**

Days	Hours	Subjects	Marks
Eighth day.	10—1	Calculus and Analytical Geometry ...	90
Ninth day ...	10—1	Hydrostatics, Properties of Matter and Heat ...	100
Tenth day ...	10—12	Pure Geometry ...	40
Total ...			440

**(ii-A) PHYSICAL SCIENCE.\***

Sixth day ...	10—1	Chemistry ...	40
Seventh day..	10—12	Dynamics ...	60
Ninth day ...	10—1	Hydrostatics, Properties of Matter and Heat ...	100
Tenth day	10—1	Light, Electricity and Sound ...	100
Dates and hours of Practical Examinations will be notified later.		Practical Examination in Chemistry ...	100
		Practical Examination in Physics ...	40
Total ...			440

\* See note under Mathematics on page 944

## (ii-B) PHYSICAL SCIENCE\*

Days	Hours	Subjects				Marks
Sixth day ...	10—1	Physics	...	...	...	40
Seventh day.	10—1	General Chemistry	...	...	...	80
Eighth day...	10—1	Inorganic Chemistry	...	...	...	80
Eleventh day.	10—1	Chemistry of Carbon Compounds	...	...	...	100
Dates and hours of Practical Examina- tions will be noti- fied later.		Practical Examination in Physics	...	...	...	40
		Practical Examination in Chemistry	...	...	...	100
Total ...						440

## (iii) NATURAL SCIENCE.\*

## (A) Botany.

Days	Hours	Subjects			Marks
Sixth day ...	10—1	Written Examination in Main subject I ...			80
Seventh day	10—1	Do.	Do.	II ...	80
Eighth day {	10—12	Do.	Subsidiary I ...		50
	2—4	Do.	Do. II ...		50
Dates and hours of Practical Examina- tions will be notified later.	{	Practical Examination in Main Subject I.			50
		Do. Do. II			50
		Collection	...	...	20
		Practical Note books	...	...	20
		Practical Examination in the Subsidiary Subject	...	...	50
Total ...				450	

\* See note under Mathematics on page 944

## (iii) NATURAL SCIENCE\*

## (B) Zoology

Days.	Hours.	Subjects.	Marks.
Sixth Day ...	10—1	Written Examination in Zoology (Main-I) Invertebrata ...	100
Seventh Day.	10—1	Written Examination in Zoology (Main-II) Chordata ...	100
Eighth Day.	{ 10—12	Written Examination in Zoology (Subsidiary-I) Invertebrata ...	50
	{ 2—4	Written Examination in Zoology (Subsidiary-II) Chordata ...	50
Dates and hours of Practical Examinations will be notified later.		{ Practical Examination in Main Subject I ...	50
		Do. Do. Do. 11 ...	50
		Do. in Subsidiary Subject ...	50
Total ...			450

## (C) Geology.

Days	Hours	Subjects	Marks
Sixth day ...	10—1	Written Examination in Main Subject I.	75
Seventh day.	10—1	Do. in Main Subject II ...	75
Eighth day {	10—1	Written Examination in Subsidiary Subject I	50
	2—4	Do. do. Subject II	50

\* See note under Mathematics on page 944

NATURAL SCIENCE\*—*contd.*(C) *Geology*—*contd.*

Dates and hours of Practical Examina- tions will be noti- fied later.	{	Practical Examination in Main Subject	I	50
		Do. do.	II	50
		Notes on field work with Specimens	...	20
		Laboratory or practical note-books	...	20
		Library Note-books	...	10
		Practical Examination in Subsidiary Subject	... ..	50
Total ...				450

*D. Physiology.*

## (Main)

Days	Hours	Subject.	Marks
Sixth day ...	10—1	Written Examination in Main Subject I	100
Seventh day.	10—1	Do. do. II	100
Dates and hours of Practical Examina- tions will be notified later.	{	Practical Examination in Main Subject I	50
		Do. do. II	50
Total ...			300

## (iv) PSYCHOLOGY, ETHICS AND LOGIC OR A LANGUAGE

Sixth day ...	10—1	Logic and Theory of Knowledge or a Language ...	...	80
Seventh day.	10—1	Special Subject ...	...	80
Eighth day {	10—12	Psychology I	...	60
	2—4	Do. II	...	60
Ninth day. {	10—12	Ethics I	...	60
	2—4	Do. II	...	60
Total ...				400

\*See note under Mathematics on page 944

## (v) HISTORY AND ECONOMICS

## A.

Days	Hours	Subjects	Marks
Sixth day ...	10—1	Political Science or a Language ...	80
Seventh day.	10—1	General Indian History	80
Eighth day.	10—1	Constitutional History of Great Britain and Ireland ...	80
Ninth day ...	10—1	Outlines of European History ...	80
Tenth day ...	10—1	Economic—General ...	80
Total ...			400

## B.

Sixth day ...	10—1	Modern History ...	80
Seventh day.	10—1	General Indian History ...	80
Eighth day.	10—1	Economics—Special I	80
Ninth day ...	10—1	Economics—Special ...	80
Tenth day ...	10—1	Economics—General ...	80
Total ...			400



## (vi) LANGUAGES OTHER THAN ENGLISH

## (1) Sanskrit and Early Indian History

Days	Hours	Subjects	Marks
Sixth day ...	10—1	Books of the Early Period ...	80
Seventh day.	10—1	Books of the Later Period ...	60
Eighth day .	10—1	Books of the Later Period ...	60
Ninth day ...	10—1	Grammar ...	60
Tenth day ...	10—1	History of Sanskrit Literature ...	60
Eleventh day	10—1	Early Indian History ...	80
Total ...			400

## (2) Urdu and Indian History—Muslim Period, or Arabic or Persian

Sixth day ...	10—1	Prose books ...	80
Seventh day.	10—1	Poetry ...	60
Eighth day	10—1	Translation ...	60
Ninth day ..	10—1	Grammar, including Rhetoric and Prosody ...	60
Tenth day ...	10—1	History of Language and History of Literature ...	60
Eleventh day	10—1	Indian History—Muslim Period or Arabic or Persian ...	80
Total ...			400

## (3) Arabic or Persian, and Early Muslim History

Sixth day ...	10—1	Prose books ...	80
Seventh day.	10—1	Poetry ...	60
Eighth day .	10—1	Translation ...	60
Ninth day ...	10—1	Grammar, including Rhetoric and Prosody ...	60
Tenth day ...	10—1	History of Arabic or Persian Language and Literature ...	60
Eleventh day	10—1	Early Muslim History ...	80
Total ...			400

(4) *A Dravidian Language or Oriya or Marathi, and a Related Subject or Sanskrit*

Days	Hours	Subjects	Marks
Sixth day ...	10—1	Set books and History of Literature I ...	70
Seventh day..	10—1	Do. do II ...	70
Eighth day...	10—1	History of Language and Grammar ...	60
Ninth day ...	10—1	Comparative Grammar—Dravidian or Gaudian ... ..	60
Tenth day ...	10—1	Composition ... ..	60
Eleventh day	10—1	Related Subject or Sanskrit ... ..	80
Total ...			400

(5) *Greek or Latin*

Days	Hours	Subjects	Marks
Sixth day ...	10—1	Set books and History of Literature ...	70
Seventh day..	10—1	Do do ...	70
Eighth day...	10—1	Prose Composition ... ..	60
Ninth day ...	10—1	Translation of unprepared passages ...	60
Tenth day ...	10—1	Grammar ... ..	60
Eleventh day.	10—1	Greek or Roman History ... ..	80
Total ...			400

(6) *French or German*

Days	Hours	Subjects	Marks
Sixth day ...	10—1	Set books and History of Literature ...	60
Seventh day..	10—1	Do do ...	60
Eighth day...	10—1	History of the Language ... ..	70
Ninth day ...	10—1	Composition ... ..	70
Tenth day ...	10—1	Translation ... ..	60
Eleventh day.	10—1	European History ... ..	80
Total ...			400

(7) *Hebrew and History of the Jews*

Sixth day ...	10—1	Set books ... ..	70
Seventh day..	10—1	Do. ... ..	70
Eighth day...	10—1	Translation ... ..	60
Ninth day ...	10—1	Grammar ... ..	60
Tenth day ...	10—1	History of Language and Literature ...	60
Eleventh day.	10—1	History of the Jews ... ..	80
Total ...			400

**B.A. Degree Examination****(i) ENGLISH LANGUAGE AND LITERATURE**

Register Number	English	Whether passed or not passed	If passed, in what class ranked	Remarks
	340			

Register Number							
Optional Group							
220	Pure Mathematics	Group i	Group ii	Group iii-a Botany	Group iii-b Zoology	Group iii-c Geology	Group iii-d Human Physiology
220	Applied Mathematics						
440	Total						
260	Main Subject	Group i	Group ii	Group iii-a Botany	Group iii-b Zoology	Group iii-c Geology	Group iii-d Human Physiology
100	Practical examination in Main Subject						
80	Subsidiary Subject						
440	Total	Group i	Group ii	Group iii-a Botany	Group iii-b Zoology	Group iii-c Geology	Group iii-d Human Physiology
160	Main Subject						
140	Practical examination in Main Subject						
150	Subsidiary Subject	Group i	Group ii	Group iii-a Botany	Group iii-b Zoology	Group iii-c Geology	Group iii-d Human Physiology
450	Total						
200	Main Subject						
100	Practical examination in Main Subject	Group i	Group ii	Group iii-a Botany	Group iii-b Zoology	Group iii-c Geology	Group iii-d Human Physiology
150	Subsidiary Subject						
450	Total						
150	Main Subject-Written	Group i	Group ii	Group iii-a Botany	Group iii-b Zoology	Group iii-c Geology	Group iii-d Human Physiology
150	Practical Examination in Main Subject						
150	Subsidiary Subject						
450	Total	Group i	Group ii	Group iii-a Botany	Group iii-b Zoology	Group iii-c Geology	Group iii-d Human Physiology
200	Main Subject						
100	Practical Examination in Main Subject						
150	Subsidiary Subject	Group i	Group ii	Group iii-a Botany	Group iii-b Zoology	Group iii-c Geology	Group iii-d Human Physiology
450	Total						
200	Psychology and Special Subject						
200	Ethics and Logic or a Language	Group i	Group ii	Group iii-a Botany	Group iii-b Zoology	Group iii-c Geology	Group iii-d Human Physiology
400	Total						
240	Indian, European, and Constitutional History						
160	Economics and Political Science or a Language	Group i	Group ii	Group iii-a Botany	Group iii-b Zoology	Group iii-c Geology	Group iii-d Human Physiology
400	Total						
240	Economics						
160	History	Group i	Group ii	Group iii-a Botany	Group iii-b Zoology	Group iii-c Geology	Group iii-d Human Physiology
400	Total						
320	Selected Language						
80	Related Subject or Language	Group i	Group ii	Group iii-a Botany	Group iii-b Zoology	Group iii-c Geology	Group iii-d Human Physiology
400	Total						

NUMBER OF MARKS OBTAINED

(ii) OPTIONAL GROUPS

iii

B.A.

Name	English					
	Vernacular					
Age and date of birth						
Name and occupation of father or guardian						
Race (i.e., nation, tribe, etc.)				Religion		
Address						
Date of passing the Intermediate Examination in Arts & Science						
College or colleges at which candidate has studied for the examination and time at each						
The Part or Parts (both Parts, or Part I, or Part II) for which the candidate is appearing						
Group selected under Part II and optional subjects, if any, selected under that Group. (If Group (iii), state main and subsidiary subjects; if Group (iv) or Group (v), state whether a language is taken and, if so, specify the language; if Group (vi), state the language and the related subject or language)						
If the candidate has already passed in either Part, the year of passing, register number and the class taken should be stated	Part I			Part II		
	Year	Reg. No.	Class	Year	Reg. No.	Class
*Year or years, if any, in which the candidate has already appeared for the examination, and the place of examination in each year, with the register number	Part I			Part II		
	Year	Reg. No.	Centre	Year	Reg. No.	Centre
Signature of the Principal of the college in which candidate is attending at date of application						
Date..... Signature of candidate.....						
* This column is not intended for candidates appearing for the first time.						

## B.A. UNDER THE TRANSITORY REGULATIONS

## PART I—ENGLISH LANGUAGE AND LITERATURE

Name	English		
	Vernacular		
Age and date of birth			
Name and occupation of father or guardian			
Race ( <i>i e.</i> , nation, tribe, etc.)		Religion	
Address			
Date of passing the First Examination in Arts			
Whether the candidate has already passed in Part II or its equivalent under the Old By-laws. If so, the Group or Branch, year of passing, register number, and the class taken			
Whether the candidate has already passed the Second Language division under the Old By-laws, or its equivalent under the Transitory Regulations; if so, specify the language, year of passing, register number and the class taken			
Year or years, if any, in which the candidate has already appeared under the Transitory Regulations for the examination and the place of examination in each year			
Present position or occupation			

## B.A. UNDER THE TRANSITORY REGULATIONS

## PART II—OPTIONAL GROUP (vi)—LANGUAGES

## OTHER THAN ENGLISH

Name	English		
	Vernacular		
Age and date of birth			
Name and occupation of father or guardian			
Race ( <i>i.e.</i> , nation, tribe, etc.)		Religion	
Address			
Date of passing the First Examination in Arts			
Language selected			
Whether the candidate has already passed in Part I or its equivalent under the Old By-laws. If so, year of passing, register number, and the class taken			
Whether the candidate has already passed the Science Division of the Examination under the Old By-laws or its equivalent under the New Regulations. If so, the Branch or Group, year of passing, register number and the class taken			
Year or years, if any, in which the candidate has already appeared under the Transitory Regulations for the examination and the place of examination in each year			
Present position or occupation			



## B.A. UNDER THE TRANSITORY REGULATIONS

PART II—OPTIONAL GROUP *other than* GROUP (vi)

Name	English	
	Vernacular	
Age and date of birth		
Name and occupation of father or guardian		
Race (i.e., nation, tribe, etc.)		Religion
Address		
Date of passing the First Examination in Arts		
Group and optional subjects, if any, selected under that Group. If Group (iii), state main and subsidiary subjects. If Group (iv) or Group (v), state whether a language is taken and, if so, specify the language.		
Whether the candidate has already passed in Part I or its equivalent under the Old By-laws. If so, year of passing, register number, and the class taken		
Whether the candidate has already passed the Second Language Division of the B.A. Degree Examination under the Old By-laws, or its equivalent under the Transitory Regulations. If so, specify the language, year of passing, register number and the class taken		
Year or years, if any, in which the candidate has already appeared under the Transitory Regulations for the examination and the place of examination in each year		
Present position or occupation		

## APPENDIX XXIII.

COMBINED TIME-TABLE FOR EXAMINATIONS FOR THE B.A. DEGREE,  
GROUPS (i), (ii) AND (iii), AND FOR THE B.Sc. DEGREE

Days	Hours	Subjects	Examinations	Marks
Sixth Day	10—1	Algebra and Trigonometry	... B.A. (i) and B.Sc.	90
	10—1	Chemistry	... B.A. (ii-A)	40
	10—1	Physics	... B.A. (ii-B)	40
	10—1	Botany I	... { B.A. (iii) B.Sc. and B.Sc. (Hon.)	90
	10—1	Zoology I	... B.A. (iii), B.Sc. and B.Sc. (Hon.)	100
	10—1	Geology I	... { B.A. (iii) B.Sc. and B.Sc. (Hon.)	75
	10—4	Human Physiology I	... B.A. (iii)	100

COMBINED TIME-TABLE FOR EXAMINATIONS FOR THE B.A. DEGREE,  
GROUPS (D), (ii) AND (iii), AND FOR THE B.Sc. DEGREE—(continued).

Days.	Hours	Subjects	Examinations	Marks
Seventh Day	10—12	Dynamics	...	67
	2—4	Astronomy	...	60
	10—1	General Chemistry	...	80
	10—1	Botany II	...	80
	10—1	Zoology II	...	100
	10—1	Geology II	...	100
	10—1	Human Physiology I	...	75
Eighth Day	10—1	Calculus and Analytical Geometry	...	100
	10—1	Inorganic Chemistry	...	90
	10—12	Botany—Subsidiary I	...	80
	10—12	Zoology—Subsidiary I	...	50
	10—12	Geology—Subsidiary I	...	50
	2—4	Botany—Subsidiary II	...	50
	2—4	Zoology—Subsidiary II	...	50
Ninth Day	10—1	Hydrostatics, Properties of Matter and Heat	...	50
	...	...	...	...

## COMBINED TIME-TABLE FOR EXAMINATIONS FOR THE B.A. DEGREE.

## GROUPS (i), (ii) AND (iii), AND FOR THE B.Sc. DEGREE—(continued)

Days	Hours	Subjects	Examinations	Marks
Tenth Day ...	10—12	Pure Geometry ...	...	...
	10—1	Light, Electricity and Sound ...	B.A. (i) ... B.A. (ii-A) and B.Sc. ...	40 100
Eleventh Day ...	10—1	Chemistry of Carbon Compounds (Optional for B.Sc.)	B.A. (ii-B) and B.Sc.	100
Twelfth Day ...	10—1	General Chemistry ...	B. Sc. ...	100

Dates and hours of the Practical Examinations will be notified later.

## APPENDIX

### SCHEME OF EXAMINATIONS FOR THE B.A. DEGREE SHOWING COMMON PAPERS

Day	Time	B.A.	
		Group (i) — Mathematics	Group (ii-A) Physical Science
Sixth Day ...	10—1	Algebra and Tri- gonometry (1).	Chemistry.
Seventh Day ...	10—12	Dynamics (2) ...	Dynamics (2).
	2—4	Astronomy ...	
Eighth Day ...	10—1	Calc. and Anal. Geometry (5).	
Ninth Day ...	10—1	Hydrostatics, Pro- perties of Matter and Heat (3).	Hydrostatics. Properties of Matter and Heat (3).
Tenth Day ...	10—12	Pure Geometry ...	Light, Elec. and Sound.
Eleventh Day...	10—1		

**XXIV**

**GROUPS (i), (ii) AND (iii), AND FOR THE B.Sc. DEGREE  
AND EXAMINATIONS.**

<b>DEGREE.</b>				
<b>Group (ii-B) Physical Science</b>	<b>Group (iii-A) Botany</b>	<b>Group (iii-B) Zoology</b>	<b>Group (iii-C) Geology</b>	<b>Group (iii-D) Physiology</b>
Physics ...	Written Exmn. Main I.	Written Exmn. Main I.	Written Exmn. Main I.	Written Exmn. Main I.
General Chemistry. ...	Written Exmn. Main II.	Written Exmn. Main II.	Written Exmn. Main II.	Written Exmn. Main II.
Inorg. Chemistry...	Botany—Sub. I. Botany—Sub. II.	Zoology—Sub. I. Zoology—Sub. II.	Geology— Sub. I. Geology— Sub II.	
Chem. of Carb. Comp. ...				

**SCHEME OF EXAMINATIONS FOR THE B.A. DEGREE**  
**SHOWING COMMON PAPERS**

Day	Time	B.Sc.	
		Mathematics	Physics
Sixth Day ...	2—5	} Algebra and Trigonometry (1)	
Seventh Day {	10—12	Dynamics (4).	
	2—4	Astronomy.	
Eighth Day ...	10—1	{ Calc. and Anal. Geometry.	
Ninth Day ...	10—1	{ Hydrostatics, Properties of Matter and Heat (5).	
Tenth Day ...	10—1		{ Light, Elec. and Sound (6).
Eleventh Day...	10—1		
Twelfth Day...	10—1		General Chemistry.

GROUPS (i), (ii) AND (iii), AND FOR THE B.Sc. DEGREE  
AND EXAMINATIONS

DEGREE			
Chemistry	Botany	Zoology	Geology
Optional--Chem. of Carb. Com. (8)			



## APPENDIX XXV

### COURSES OF STUDY AND EXAMINATIONS FOR THE B.A. (HONOURS) DEGREE EXAMINATION IN PHYSICAL AND NATURAL SCIENCES.

(UNDER EXISTING REGULATIONS).\*

(Extract from the Regulations of 1918 Calendar).

#### *A. Course of Study.*

1. For the B.A. (Honours) degree the course shall extend over a period of not less than three years and shall comprise instruction in:—

I. English.

II. One of the following branches of knowledge:—

i. Physical Science—either ii-A or iiB.

ii. Natural Science.

#### *B. Examinations.*

\* \* \* \*

2. (a) No candidate shall be eligible for the B.A. (Honours) degree until he has passed an examination in one of the branches of knowledge contained in the courses of study.

(b) No candidate, other than those hereafter exempted, shall be admitted to the final examination in Honours unless he has passed a preliminary examination.

This preliminary examination shall be in English for the B.A. degree in (1) Composition, (2) Nineteenth Century Prose.

(c) No candidate shall be declared to have passed the preliminary examination unless he obtains forty per cent of the total marks in the two papers. Candidates obtaining not less than sixty per cent of the total marks shall be declared to have passed with distinction.

3. No candidate shall be admitted, to the preliminary examination unless he has passed the Intermediate Examination in Arts in this University or an examination in some other Uni-

*Note.*—The regulations in the main calendar in regard to Fees, dates for application for registration, Examination, etc., will apply.

\*These Regulations will remain in force till the year in which the examination for the B.Sc. (Honours) Degree will be held for the first time.

versity recognized by the Syndicate as equivalent thereto. Each candidate must forward with his application his Intermediate or other accepted certificate.

\* \* \* \*

4. A candidate for the B.A. (Honours) degree shall appear for the final examination in Honours not later than the end of the fourth year after he has passed the Intermediate Examination.

5. No candidate shall be permitted to undergo the complete final examination in Honours more than once.

6. In the event of a candidate for the B.A. (Honours) degree failing to satisfy the Examiners he may be recommended by them for the B.A. degree, provided that he obtains not less than 33½ per cent of the total marks and not less than twenty-five per cent in each division of the examination.

7. A candidate not already eligible for the B.A. Degree, who, having failed completely in the B.A. (Honours) Degree Examination, desires to appear for the B.A. Degree Examination shall be allowed to do so without the production of a further certificate of attendance in an affiliated college.

\* \* \* \*

8. No candidate shall be admitted to the examination until he has been registered.

\* \* \* \*

9. A candidate for the B.A. (Hons.) degree who has passed the B.A. or the B.Sc. Degree Examination shall be permitted to appear for the B.A. (Hons.) Degree Examination after a two years course, provided he has passed the B.A. or the B.Sc. Degree Examination in the main subject in which he desires to appear. Each such candidate shall forward so as to reach the Registrar before the 20th March preceding the Examination, certificates, in the form hereinafter prescribed, from the head of an affiliated college to the effect that he has attended an affiliated college for a period of at least two years after passing the B.A. or the B.Sc. Degree Examination, that he has completed the course of instruction in the subjects in which he proposes to appear and that his conduct and progress have been satisfactory. He shall be exempted from passing the preliminary examination, and if he appears for the examination in Branch ii or iii, he shall be exempted from examination in the subsidiary subject, and shall be credited with the percentage of marks which he obtained in that subject in the B.A. or the B.Sc. Degree Examination.

10. A candidate who has already qualified for the Degree of Bachelor of Arts (Honours) in Branches II-A (Physics), or II-B (Chemistry), or in any one of the subjects of Branch III (Natural Science) as the main subject, may further qualify for that degree in an additional allied Science Branch as the main subject.

A candidate desirous of coming under the provisions of the above regulation shall submit his laboratory note-book containing the record of his practical work performed during the period of study for the Examination (duly certified by his Professor) as a *bona fide* record of work done by him. The laboratory note-book shall be submitted on the first day of the Practical Examination to the Examiners engaged in conducting the Examination.

He shall be exempted from examination in the subsidiary subject, provided it was the main subject in which he previously qualified for the Honours Degree.

A candidate coming under the provisions of this Regulation shall be declared to have passed the Examination if he has obtained not less than 40 per cent. of the total marks, and 30 per cent. of the marks in each division of the Examination. The Divisions shall be as follows:—

(a) Written examination in the Main subject.

(b) Practical examination and laboratory note-books in the Main subject.

#### ii-A. *Physical Science.*

*Physics.*—A candidate shall be required to have a sound knowledge of the experimental side of the following subjects, and also such knowledge of the theoretical side of each as may be obtained by the applications of the calculus, and simple differential equations:—

Properties of Matter.

Heat.

Geometrical and Physical Optics.

Sound.

Magnetism and Electricity.

A candidate shall also be required to have a special knowledge, experimental and theoretical, of one of the following subjects, the choice of subject being left to the option of the candidate:—

Thermodynamics.

Theory of Heat Conduction.

Kinetic Theory of Gasses and its applications.

Theory of Electricity and Magnetism.

Radio-activity.

Theory of Sound and Wave Theory of Light.

Radiation A—Electrical waves, wireless telegraphy and telephony.

### Radiation B—X Rays and their applications.

A candidate shall give notice through his college, a year before the date of the examination, of the particular subject he proposes to take.

The knowledge of the candidate shall be tested by a practical examination, in which he will be expected to make physical measurements and observations of the more advanced kind.

Each candidate shall submit his laboratory note-books containing the record of all his practical work performed during the period of study for the examination. The record shall be countersigned by the professor or professors under whom the candidate has worked to certify it to be a *bona fide* record of work performed by the candidate. It shall be submitted on the first day of the practical examination to the examiners engaged in conducting the examination.

*Chemistry.*—The course shall be the same as that prescribed for students taking the course (ii-A) for the B.A. degree.

### ii-B. *Physical Science.*

*Chemistry.*—A candidate shall be required to show that he has made a more comprehensive study than for the B.A. degree, of the four main divisions of the subject:—

1. General theoretical Chemistry, including its historical development.
2. Chemistry of the non-metals and metals.
3. Chemistry of the carbon compounds.
4. Physical Chemistry.

A candidate shall also be required to have a special knowledge, experimental and theoretical, of *one* of the following subjects, the choice of subject being left to the option of the candidate:—

- (a) Electro-Chemistry.
- (b) Mineralogy and Elementary Crystallography.
- (c) Elementary Crystallography and Stereo-chemistry.
- (d) Metallurgical Chemistry.
- (e). Tinctorial Chemistry.
- (f) Bio-Chemistry.
- (g) Chemistry of the rare earths and radio-elements.

A candidate shall give notice through his college, a year before the date of the examination, of the particular subject he proposes to take.

The candidate shall be required to be practically familiar with the ordinary methods of experiment, and of the methods of analysis in common use, including the manipulation of gases. The examination shall also include the estimation of carbon, hydrogen, nitrogen, sulphur and the halogens in organic compounds; and the determination of molecular weights by the freezing and boiling point methods, and by vapour density.

The candidate shall submit his laboratory note-books containing the record of all his practical work performed during the period of study for the examination. The record shall be countersigned by the professor or professors under whom the candidate has worked to certify it to be a *bona-fide* record of work performed by the candidate. It shall be submitted on the first day of the practical examination to the examiners engaged in conducting the examination.

*Physics.*—The course shall be the same as that prescribed for students taking the course in (ii-B) for the B.A. degree.

### iii. *Natural Science.*

A candidate shall take, as a main subject, one of the following:—

A. Botany, B. Zoology, C. Geology, D. Physiology and also one other of these as a subsidiary subject. The syllabus of examination for the latter shall be the same as that for the subsidiary subject in the B.A. degree, but the standard shall be higher.

In the main subject every candidate shall submit his laboratory note-books containing the drawings or other record relating to all his practical work performed during the period of study for the examination. The record shall be countersigned by the professor or professors under whom the candidate has worked and shall be certified to be a *bona-fide* record of work performed by the candidate. It shall be submitted on the first day of the practical examination to the examiners engaged in conducting the examination.

The examination shall consist of—

#### 1. In the main subject—

Four papers of three hours each.

Three-practical examinations of three hours each.  
Laboratory note-books.

#### 2. In the subsidiary subject—

Two papers of three hours each.

A practical examination of three hours.

A. BOTANY.—1. The general Morphology and Physiology of plant, and the peculiarities of form or structure depending on habit or habitats.

2. The systematic position and relationships of the chief flowering plants and ferns of India and in general of flowerless plants more especially those of economic importance.

3. General Palæobotany especially with reference to the relationships of modern plants.

4. Methods of pollination and seed dispersal, and their connection with members of the animal kingdom. Phenomena of heredity, and of selection, natural and artificial.

The practical examination may include—

1. The identification of Indian plants with the help of a FLORA or of any other books that may be available.

2. The preparation and correct interpretation of microscope sections of plants.

3. The examination of any diseased or abnormal plant.

4. Practical Physiology and *viva voce* examination.

ii. *As the subsidiary Subjects.*

The following revised Syllabus will take effect from the examination of March-April 1929:—

(1) The structure and life history of the following:—

*Bacteria, Oscillaria, Nostoc, Chlamydomonas, Pandorina, Eudorina, Pleodorina, Volvox, Ulothrix, Culadophora, Oedogonium, Spirogyra, Desmids, Diatoms, Ectocarpus, Fucus or Sargassum, Polysiphonia, Gracillaria, Nitella or Chara, Phytophthora, Rhizopus, Penicillium, Peziza, Puccinia, Agaricus, Riccia, Marchantia, Mosses, Scutigera, Fern, Marsilia, Cycas, Pine.*

(2) External Morphology of Flowers.

(3) The general principles of classification and the distinguishing characteristics of the following families:—

*Anonaceae, Nymphaeaceae, Leguminosae, Capparidaceae, Malvaceae, Sterculiaceae, Tiliaceae, Geraniaceae, Rutaceae, Meliaceae, Rhamnaceae, Combretaceae, Myrtaceae, Lythraceae, Cucurbitaceae, Umbelliferae, Rubiaceae, Compositae, Apocynaceae, Asclepiadaceae, Convolvulaceae, Solanaceae, Acanthaceae, Labiatae, Amaranthaceae, Euphorbiaceae, Urticaceae, Liliaceae, Amaryllidaceae, Scitamineae, Orchidaceae, Palmae, Cyperaceae, Gramineae.*

(4) Plant Physiology:—

Chemical composition of the plant, soil and its nature. Photosynthesis, Transpiration, Respiration, Metabolism, Heterotrophic Plants, Growth, Movements, Irritability, Reproduction (Sexual and Asexual) Cross and Self Fertilization, Variation, Heredity and Mendelism. Theories of Evolution and the Origin of Species.

**(5) Histology—**

Cell structure and Cell division, plastids, Cell-sap, other Cell contents, the origin, nature and development of Plant-tissues Primary and secondary tissues and their distribution in the plant body.

**B. ZOOLOGY.**—The course shall be more complete than that for the B.A. degree. Candidates will, in addition to the scheme already outlined, be expected to have a knowledge of minor groups like the Mosozoa, the more important groups of extinct animals, the early development of the chick and the outlines of Vertebrate embryology and to go into the classification more fully. The practical work will not be confined to the types enumerated. The candidates may be required to dissect any of the more common types of animals included in the classes they study, to identify specimens with the aid of manuals, to report upon zoological collections, to make microscopical preparations, to cut sections with the microtome, and to show their practical acquaintance with the methods employed in studying the embryology of the chick.

**C. GEOLOGY.**—*Mineralogy.* The syllabus of the B.A. degree course treated more fully and the following:—the thirty-two types of crystal symmetry, systems of crystal notation, zonal characters, crystal projection and drawing. Twin crystals, grouping and irregularities of crystals, parting-planes, percussion-figures, etching figures, etc. Use of the goniometer: general behaviour of mineral sections in polarized light; determination of minerals by chemical, physical and optical tests. The common metallic ores and their occurrence with special reference to India.

*Petrology.*—The syllabus of the B.A. degree course treated more fully and the following:—the chief Indian rocks and their distribution and economic value if any; mechanical analysis of rocks. Description and determination of rocks and rock-structures.

*Physical Geology.*—The B.A. degree course treated more fully and also the following:—rock-weathering and formation of soils, the composition and structure of rock masses as influencing scenery; circulation of underground water and its effects.

*Stratigraphy and Palaeontology.*—General distribution of existing faunas and floras and their relation to those of former geological periods; morphological characters of the more important general and the larger groups of fossils; conditions of their distribution in present and past time; characteristic fossils of the successive geological systems; principles of correlation. Homotaxis.

*Indian Geology.*—Geology of India brought up to date.

*Practical Examination.*—Drawing and interpretation of geological maps and sections; identification and description of mine-

erals, rocks, fossils, and models. Use of the petrological microscope, goniometer, heavy liquids, etc. Problems on structural and field geology. Principles and methods of geological surveying.

Candidate will be expected to have had practice in field work.

**D. PHYSIOLOGY.**—Definition and Scope of Physiology. Problem of Physiology. Living and dead matter. The cell. Protoplasm and its properties. Histology of the principal tissues and organs of the body. Chemical composition of the body. Muscle. Irritability. Contractility. Muscle-nerve preparation. Muscular contraction. Changes during contraction. Nature of muscular and nervous action. Electrotonus. Circulatory system and circulation. Regulation of the vascular mechanism. Vasomotor action. Inflammation. Composition of blood. Coagulation of the blood. Lymphatic system. Nature and movements of lymph. Secreting glands. Foodstuffs. Nature, properties and secretion of saliva, gastric juice, bile, pancreatic juice, and succus entericus. Mechanism of digestion. Changes which food undergoes in the alimentary canal. Absorption. Liver and its work. The ductless glands and what is known about their functions. Respiration. Respiratory mechanism. Nervous mechanism of respiration. Changes of the air during respiration. Changes in the blood. Respiration of the tissues. Asphyxia. Effect of respiration on the circulation. Special respiratory movements. Cutaneous respiration. Composition, character and secretion of urine. Urinary apparatus. Micturition. Nature and composition of sweat. Mechanism of the secretion of sweat. General metabolism. Statistics of nutrition. Diet. Energy of the body. Temperature of the body. Production and regulation of animal heat. Nerves and nerve-functions. Trophic nerves. Columns and tracts of the spinal cord; evidence for their existence. Functions of the cord. Reflex action. Structure of the brain. Disposition and connections of the grey and white matter of the brain. Functions of the brain. Removal of the cerebrum. Localization of cerebral functions. Cerebellum. Machinery of co-ordinated movements. Sensations. Structure of the eye. The eye as an optical instrument. Accommodation. Imperfections in the visual apparatus. Features of visual sensation. Colour sensation. Binocular vision. Visual judgments. Structure of the ear. Auditory sensation. Taste and smell. Cutaneous sensations. Muscular sense. Mechanism of locomotion, voice and speech. Impregnation. Outlines of the development of the embryo and its envelopes. Nutrition of the embryo. Birth. Lactation. Phases of life. Death.

**Practical Examination.**—Candidates must be prepared to answer *viva voce* questions, to examine, stain, mount and describe sections, and to identify microscopic preparations. They must show their practical acquaintance with the chemistry of albumin and its allies, milk, glycogen, the digestive, juices and their action on food, blood and urine. They will be expected to be familiar with the use of the most important apparatus employed in studying the physiology of muscle, nerve, the circulatory and respiratory systems and the organs of sense.



Taken as a subsidiary subject, Physiology shall include a knowledge of the essential facts of the structure and functions of the body as indicated below.

Food, digestion and absorption. Nature, composition and functions of the blood. Circulation. Vasomotor action. Lymph. Respiration and the respiratory mechanism. Secretion. Work of the liver. Sweat and its formation. Work of the kidneys. Temperature of the body and its maintenance. Various modes in which muscles give rise to movement. Functions of the principal parts of the central nervous system. Functions of nerves. Reflex action. General account of the sensory organs.

In the practical examination candidates will be expected to answer *viva voce* questions, and to identify microscopical preparation. They must show their practical acquaintance with the chemistry of albumin, milk, and urine, and with the action of the digestive ferments on food. They may be required to take tracings of a simple muscular contraction, and of a contracting heart.

A candidate shall be declared to have taken honours in one of the branches of knowledge for the B.A. (Honours) Degree if he obtains not less than forty per cent of the total marks and not less than thirty per cent. in each division of the examination. The divisions shall be as follows:—

\* \* \* \*

Branch ii. (a) Written Examination in the Main Subject, (b) Practical Examination and laboratory note-books in the Main Subject, (c) Subsidiary Subject.

Branch iii. (a) Written examination in the Main Subject, (b) Practical Examination and laboratory note-books in the Main Subject, (c) Subsidiary Subject.

\* \* \* \*

Candidates obtaining honours shall be ranked in the order of proficiency as determined by the total marks obtained by each and shall be arranged in three classes:—

The *first* consisting of those who obtain not less than sixty per cent; the *second*, of those who obtain not less than fifty per cent; and the *third*, of those who obtain not less than forty per cent of the total marks.

### FORMS OF CERTIFICATES.

#### B. A. (HONOURS) DEGREE EXAMINATION.

*I certify that.....has attended the course of instruction in.....at the.....College for three-fourth of the number of working days in the year.....and that his progress and conduct have been satisfactory.*

*Dated.....19 .*

*(Signature)*

**Principal.**

**XXV] FORMS OF CERTIFICATES FOR B. A. (HONS.) 975**  
**DEGREE EXAMINATION.**

---

*I certify that.....has attended a course of instruction  
in.....at the.....College for three-fourths of  
the number of working days in the year.....and that  
his progress and conduct have been satisfactory... ..*

*Dated.....19 . (Signature)*

*Principal.*

*I certify that.....has attended the course of instruction  
in.....at the.....College for three-fourths of  
the number of working days in the year.....and that  
his progress and conduct have been satisfactory, and that he has  
completed the course of study prescribed for the B.A. (Honours)  
Degree Examination.*

*Dated.....19 . (Signature)*

*Principal.*

*I certify that.....has attended the course of  
practical instruction in.....for the B.A. (Honours) Degree  
Examination at the.....during the year.....*

*Dated.....19 . (Signature)*

*Professor or Lecturer.*

*I certify that.....has attended the course of  
practical instruction in.....for the B.A. (Honours) Degree  
Examination at the.....during the year.....*

*Dated.....19 . (Signature)*

*Professor or Lecturer.*

*I certify that.....has attended the course of  
practical instruction in.....for the B.A. (Honours) Degree  
Examination at the.....during the year.....and  
that he has satisfactorily completed the course. ....*

*Dated.....19 . (Signature)*

*Professor or Lecturer.*

976 **TIME-TABLES FOR B. A. (HONOURS) DEGREE [APP. EXAMINATION.**

**BRANCH ii-A**

Days	Hours	Subjects	Marks
First day ...	10—1	Properties of Matter ...	100
Second day...	10—1	Heat and Sound ...	100
Third day ...	10—1	Sound and Light ...	100
Fourth day ...	10—1	Magnetism and Electricity ...	100
Fifth day ...	10—1	Optional Subject ...	200
Sixth day ...	10—1	Chemistry ...	100
Seventh day.	10—4	Practical Examination in Chemistry ...	100
Eighth and } Ninth days }	10—4 {	Practical Examination in Physics ... Laboratory note-books in Physics ...	400 200
Total ...			1,400

**BRANCH ii-B**

Days	Hours	Subjects	Marks
First day ...	10—1	Chemistry ...	125
Second day...	10—1	Chemistry ...	125
Third	10—1	Chemistry ...	125
Fourth day...	10—1	Chemistry ...	125
Fifth day ...	10—1	Optional Subject ...	100
Sixth day ...	10—1	Physics ...	100
Seventh day.	10—4	Practical Examination in Physics ...	100
Eighth and } Ninth days }	10—4 {	Practical Examination in Chemistry ... Laboratory note-books in Chemistry ...	400 200
Total ...			1,400

**XXV] TIME-TABLES FOR B. A. (HONOURS) DEGREE 977**  
**EXAMINATION. .**

**BRANCH III**

*(a) Botany*

Days	Hours	Subjects	Marks
First day ...	10—1	Algae, Fungi and Bryophytes ...	150
Second day...	10—1	Pteridophytes, Gymnosperms and the Morphology of Angiosperms.	150
Third day ...	10—1	Histology, Physiology, Ecology and distribution	150
Fourth day.	10—1	Systematic Botany, Economic Botany, and General Principles.	150
Fifth day ...	10—1	Practical Examination in the Main Subject.	100
Sixth day ...	10—1	Written Examination in Subsidiary Subject.	150
Seventh day	10—1	Practical Examination in Main Subject ...	100
Eighth day...	10—1	Written Examination in Subsidiary Subject.	150
Ninth day ...	10—1	Practical Examination in Main Subject...	100
Tenth day ...	10—1	{ Practical Examination in Subsidiary Subject.	100
		{ Laboratory Note-books in the Main Subject.	100
Total ...			1,400

978 TIME-TABLES FOR B.A. (HONOURS) DEGREE [APP.  
. EXAMINATION.

(b) Zoology.

Days.	Hours.	Subjects.	Marks.
First day ...	10—1	Written Examination in Zoology (Main)—Invertebrata ...	150
Second day.	10—1	Do. do. Invertebrata II.	150
Third day ...	10—1	Do. do. Chordata ...	150
Fourth day.	10—1	Do. do. General Principles	150
Fifth day ...	10—1	Practical Examination in Main Subject.	100
Sixth day ...	10—1	Written Examination in Zoology (sub- sidiary)—Invertebrata ...	150
Seventh day.	10—1	Practical Examination in main subject	100
Eighth day.	10—1	Written Examination in Zoology (sub- sidiary)—Chordata ...	150
Ninth day ...	10—1	Practical Examination in main subject.	100
Tenth day ...	10—1	{ Practical Examination in subsidiary subject ...	100
		{ Laboratory note-books in the main subject ...	100
Total ...			1,400

(c) *Geology*

Days	Hours	Subjects	Marks.
First day ...	10—1	Written Examination in Main Subject	150
Second day.	10—1	Do. do.	150
Third day ...	10—1	Do. do.	150
Fourth day.	10—1	Do. do.	150
Fifth day ...	10—1	Practical Examination in Main Subject	100
Sixth day ...	10—1	Written Examination in Subsidiary Subject ... ..	150
Seventh day.	10—1	Practical Examination in Main Subject ... ..	100
Eighth day.	10—1	Written Examination in Subsidiary Subject ... ..	150
Ninth day ...	10—1	Practical Examination in Main Subject ... ..	100
Tenth day ...	10—1	{ Practical Examination in Subsidiary Subject ... ..	100
		{ Laboratory note-books in the Main Subject ... ..	100
Total ...			1,400

**STATEMENTS OF TABULATED MARKS FOR THE B.A.  
(HONOURS) DEGREE—FINAL EXAMINATION**

**THAT WILL BE IN FORCE UNTIL THE EXAMINATION FOR THE  
B.SC. (HONOURS) DEGREE IS HELD FOR THE FIRST TIME.**

		<b>FINAL EXAMINATION—OPTIONAL BRANCHES</b>			
		<b>NUMBER OF MARKS OBTAINED</b>			
		<b>Branch I</b>		<b>Branch II</b>	
1	Register Number				
450	2	Pure Mathematics			
450	3	Applied Mathematics			
450	4	Optional Subjects			
1,350	5	Total			
600	6	Written examination in the Main Subject			
600	7	Practical examination and laboratory note-books in the Main Subject			
200	8	Subsidiary Subject			
1,400	9	Total			
600	10	Written examination in the Main Subject			
400	11	Practical examination and laboratory note-books in the Main Subject			
400	12	Subsidiary Subject			
1,400	13	Total			
400	14	Logic and Psychology or Ethics			
600	15	General Philosophy, Outlines of European Philosophy, and Outlines of Indian Philosophy.			
400	16	Optional Subject and Essay			
1,400	17	Total			

FINAL EXAMINATION—OPTIONAL BRANCHES—*continued*

			NUMBER OF MARKS OBTAINED	
			Branch V	
800	18	History, General	Economics and Politics—	
400	19	History, Special	Economics and Politics—	
200	20	Essay		
1,400	21	Total		
			Branch VI	
320	22	All papers other than Composition	First Language (Classical)	
80	23	Composition		
320	24	All papers other than Additional Composition	Second Language (Indian Vernacular)	
80	25	Additional paper on Composition		
800	26	Total		
			Branch VII	
500	27	English Language		
650	28	English Literature		
350	29	Special Period or Subject		
1,500	30	Total		
			Branch VIII	
200	31	Comparative Philology and Comparative Grammar		
600	32	General part		
600	33	Special part		
1,400	34	Total		
			Branch IX	
200	35	Comparative Philology and Comparative Grammar		
600	36	General part		
600	37	Special part		
1,400	38	Total		
			Whether passed or not passed	
			If passed, in what class ranked	
			Remarks	



## APPENDIX XXVI.

### DEGREE OF BACHELOR OF MEDICINE AND SURGERY

#### *Regulations which were in force prior to 1928.*

1. Candidates for the degree of Bachelor of Medicine and Surgery shall be required—

**Age limit for admission to college.** (i) to have completed the age of seventeen years on or before the date of admission to a college of Medicine for registration as a student;

**Preliminary qualification.** (ii) to have passed the Intermediate Examination in Arts and Science of this University, taking Group i or ii (Mathematics or Natural Science, Physics and Chemistry), or an examination accepted by the Syndicate as equivalent thereto;

**Five years' study at college.** (iii) to have been subsequently engaged for not less than five years in their professional studies in a College of Medicine affiliated to or recognised by the University.

**Four Examinations.** 2. Candidates shall be required to pass four examinations as hereinafter stated, each held twice a year, in December and April in the case of the First M.B. & B.S. Examination, and April and October in the case of the other examinations.

3. (a) Candidates who fail to pass any examinations shall be referred to their studies until the next succeeding examination.

**Referred candidates may proceed with higher studies.** (b) In the case of the examinations other than the Final, candidates referred at any examination may on the first occasion on which they are so referred proceed with their studies and enter upon the courses prescribed for the next ensuing higher examination, provided that, if any such

candidate should fail to pass the next succeeding examination, no period of study so spent in the courses for the next higher examination shall be allowed to count for the grant of the certificates prescribed therefor.

This concession will not, however, apply to candidates for the Second M.B. & B.S. Examination who fail in Part II of the examination.

(c) Candidates who have been referred to their studies shall on the first occasion on which they are so referred be admitted to the next succeeding examination without the production of additional certificates.

(d) Candidates who have been referred to their studies and who did not appear or who failed at the next succeeding examination shall be admitted to a subsequent examination only on the production of a certificate, in the form hereinafter prescribed, of having been re-engaged in study at a constituent or affiliated college until the next succeeding examination.

(e) Candidates who, not having previously failed at the examination, and having obtained the prescribed certificates did not apply for admission to the next ensuing examination although qualified to do so, or having applied for admission did not appear, shall be treated for purposes of these Regulations as if they had failed at that examination and had been referred to their studies.

#### FIRST M.B. & B.S. EXAMINATION

4. A candidate for the first M.B. & B. S. examination shall undergo a course of study extending over an academic half-year and shall be examined in—

- (a) Inorganic Chemistry, according to a Syllabus,
- (b) Physics, according to a Syllabus, and
- (c) Biology do.

The examination in each subject shall be Written, Practical and Oral.

**Conditions of admission to examination.** 5. No candidate shall be admitted to this examination unless he has produced satisfactory evidence of having complied with the provisions contained in paras. (i) and (ii) of Regulation I of this Chapter, and has produced the prescribed certificates.

**Candidates for B. A., B. Sc, etc, passing in Science Group eligible for exemption.** 6. Candidates who have passed the Physical or Natural Science Group of the B.A., B.A. (Honours), or B.Sc. Degree Examination of this University or of any other Indian University accepted by the Syndicate as equivalent thereto shall not, however, be required to produce the prescribed certificates for, or to pass in, any of the subjects laid down for this examination in which they may have already passed at the examination for their respective degrees.

**Marks qualifying for a pass.** 7. A candidate for the First M.B. & B.S. Examination shall be declared to have passed the examination if he obtains not less than one-third of the marks in the written, and not less than one-third of the marks in the practical and oral taken together in each subject, and not less than one-half of the aggregate number of marks. All other candidates shall be deemed to have failed in the examination.

Candidates who obtain partial exemption under Regulation 6 of this Chapter may be declared to have passed the First M.B. & B.S. Examination--

**Conditions of success imposed upon candidates obtaining partial exemption.** (a) in the case of a candidate who is exempted in two out of the three subjects; if he obtains not less than one-half of the maximum number of marks allotted to the third subject;

(b) in the case of a candidate who is exempted in only one out of the three subjects, if he obtains not less than one-third of the maximum marks in each of the remaining two subjects and not less than one-half of the total maximum marks for both.

8. Candidates for the First M.B. & B.S. Examination who fail in not more than one subject and who obtain not less than one-half of the aggregate number of marks in the whole examination, may, at the option of the candidates, be exempted, from re-examination in the subjects in which they have passed.

**Conditions of obtaining exemption.**

9. Candidates for the First M.B. & B.S. Examination who pass the whole examination at one time shall be ranked in the order of proficiency as determined by the total marks obtained by each and shall be arranged in two classes:—

**Classification of successful candidates for the M.B.** The first, consisting of, those who have obtained not less than two-thirds of the aggregate number of marks.

The second, consisting of all others.

Candidates who pass in the first class and who obtain not less than seventy-five per cent. of the marks in any subject shall be declared to have passed with distinction in that subject.

All candidates who pass the examination in parts shall be ranked in the second class.

#### SECOND M.B. & B.S. EXAMINATION

10. A candidate for the Second M.B. & B.S. Examination shall undergo a course of study extending over one and a half-years and shall be examined in—

**Course of study and examination**

(a) Organic Chemistry including Bio-Chemistry—according to a Syllabus.

(b) Physiology.

(c) Anatomy, including the Elements of Human Embryology.

The examination in each subject shall be Written, Practical and Oral,

11. Candidates may present themselves for the whole examination at one time, or may  
**Examination in** take the examination in two parts,  
**Parts** viz., Part I comprising Organic Chemistry including Bio-Chemistry, and Part II comprising Anatomy including the Elements of Human Embryology, and Physiology.

12. No candidate shall be admitted to Part I of the examination unless he has passed the  
**Conditions** First M.B. & B.S. examination or an  
**of admission** to examination accepted by the Syndicate  
**Part I.** as equivalent thereto, and has produced the prescribed certificates.

13. No candidate shall be admitted to Part II of the examination unless he has complied  
**Conditions** with the provisions of Regulation 12  
**of admission** to of this Chapter, and has produced the  
**Part II** prescribed further certificates.

14. No candidate shall be admitted to the whole Examination, unless he has complied with all  
**Conditions of ad-** mination, unless he has complied with all  
**mission to whole** the provisions of Regulations 12 and 13 of  
**Examination** this Chapter.

15. A candidate for the whole Examination shall be declared to have passed the examination if he obtains not less than one-half of the marks in Anatomy (including Elements of Human Embryology (written), and Physiology (written) respectively, not less than one-half of the marks in the Practical and Oral taken together in Anatomy (including Elements of Human Embryology), and Physiology respectively, not less than one-third of the marks in Organic Chemistry including Bio-Chemistry, and not less than one-half of the aggregate number of marks. All other candidates shall be deemed to have failed in the examination.

**Marks qualifying for a pass in Second M. B. & B. S. Whole Examination**

16. A candidate for the Second M.B. & B.S. Examination taken in parts shall be declared to have passed in Part I of the examination taken alone if he obtains **Marks qualifying for a pass in Part** not less than one-half of the marks in Organic Chemistry including Bio-Chemistry; and to have passed in Part II of the examination taken alone if he obtains respectively not less than one-half of the marks in Anatomy including Elements of Human Embryology (written), in Physiology (written), and in the Practical and Oral taken together in each subject. All other candidates shall be deemed to have failed in the Parts of the Examination taken alone.

17. Candidates for the Second M.B. & B.S. Examination who fail in only one subject, and **Conditions of obtaining exemption** who obtain not less than one-half of the aggregate number of marks in the whole examination may, at the option of the candidates, be exempted from re-examination in the subjects in which they have passed.

18. Successful candidates at the Second M.B. & B.S. Examination shall be ranked in the order of proficiency as determined by the total marks obtained by each and shall be arranged in two classes:—  
**Classification of successful candidates for M.B.**

The first, consisting of those who have obtained not less than two-thirds of the aggregate number of marks.

The second, consisting of all others.

Candidates who pass in the first class and who obtain not less than seventy-five per cent. of the marks in any subject shall be declared to have passed with distinction in that subject.

No candidate shall be ranked in the first class unless he has either passed the whole examination at one time or has passed each Part separately on the first occasion of appearing therefor

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 THIRD M. B. & B. S. EXAMINATION

19. A candidate for the Third B.B. & B.S. examination shall undergo a course of study extending over one year, and shall be examined in.

- (a) Materia Medica,
- (b) General Pathology and
- (c) Hygiene.

The examination in each subject shall be Written, Practical and Oral.

20. No candidate shall be admitted to the Third M.B. & B.S. Examination unless he has passed the Second M.B. & B.S. Examination or an examination accepted by the Syndicate as equivalent thereto, and has produced the prescribed certificates.

21. A candidate for the Third M.B. & B.S. Examination shall be declared to have passed the examination if he obtains not less than one-half of the marks in the written part of each of General Pathology and Hygiene, and not less than half of the marks in the Practical and Oral taken together in each of those two subjects, and not less than one-third of the marks in the Written, Practical and Oral examinations taken together in Materia Medica, and not less than one-half of the aggregate number of marks. All other candidates shall be deemed to have failed in the examination.

22. Candidates for the Third M.B. & B.S. Examination who fail in not more than one subject, and who obtain not less than one-half of the aggregate number of marks in the whole examination may, at the option of the candidates, be exempted from re-examination in the subjects in which they have passed.

**Classification of successful candidates** 23. Candidates for the Third M.B. & B.S. Examination who pass the whole examination at one time shall be ranked in the order of proficiency as determined by the total marks obtained by each, and shall be arranged in two classes:—

The first, consisting of those who have obtained not less than two-thirds of the aggregate number of marks.

The second, consisting of all others.

Candidates who pass in the first class and who obtain not less than seventy-five per cent. of the marks in any subject shall be declared to have passed with distinction in that subject.

All candidates who do not pass the whole examination at one time shall be ranked in the second class.

#### FINAL M.B. & B.S. DEGREE EXAMINATION

**Examination in Parts** 24 (i) Candidates may present themselves for the whole examination at one time or may take the examination in two parts.

**Courses of study and examination** (ii) A candidate for Part I of the Final M.B. & B.S. Degree Examination shall undergo a course of study extending over one year, and shall be examined in—

- (a) Ophthalmology, and
- (b) Medical Jurisprudence.

(iii) A candidate for Part II of the Final M. B. & B.S. Degree Examination shall undergo a course of study extending over two years, and shall be examined in—

- (a) Medicine including Therapeutics, Mental diseases, (according to a Syllabus), and Acute Infectious Diseases.
- (b) Surgery and Surgical Anatomy, and
- (c) Midwifery and Diseases of women and the New-born child.



The course for Practical Midwifery required for the M.B. & B.S. Degree shall be as under—

- (1) Every candidate for the M.B. & B.S. Degree before commencing the study of Practical Midwifery, shall have held the offices of Clinical Medical Clerk and Surgical Dresser and shall have attended a course of lectures on Surgery and Midwifery.
- (2) Every candidate shall be required to present a certificate bearing that he has conducted twenty cases of labour under official medical supervision subject to the following conditions, viz. either.
  - (a) That he has previously given regular attendance for a period of three months upon the in-door practice of a Lying-in-hospital or the Lying-in-wards of a General Hospital, and has received practical instruction therein under the supervision of a Medical Officer:

or

- (b) That he has previously given regular daily attendance for a period of one month upon the in-door practice of a Lying-in-hospital, or the Lying-in-wards of a General Hospital and that he has conducted cases of labour therein, and has been certified by the instructor as competent to conduct out-door cases under official medical supervision.
- (3) The certificate that the candidate has conducted the above-mentioned twenty cases of labour should be given by a member of the staff of a Lying-in-hospital or of a Meternity Charity recognized by the University of Madras.
- (iv) The examination in each subject shall be Written, Practical, and Oral in the case of Part I, and Written, Clinical, Practical and Oral in the case of Part II.

**25.** No candidate shall be admitted to Part I of the examination unless he has passed the **Third M.B. & B.S. Examination** or an examination accepted by the Syndicate as equivalent thereto, and has produced the prescribed certificates.

**26.** No candidate shall be admitted to Part II of the examination unless he has passed not less than three years previously the **Second M.B. & B.S. Examination**, and has complied with all the provisions of Regulation 25 of this Chapter, and has produced the prescribed further certificates.

**27.** No candidate shall be admitted to the whole examination unless he has complied with all the provisions of Regulations 25 and 26 of this Chapter.

**28.** A candidate for the Final M.B. & B.S. Degree Examination shall be declared to have passed the examination if he obtains not less than one-half of the marks in Ophthalmology and in Medical Jurisprudence respectively, and not less than one-half of the marks in the written part of each of the remaining subjects, not less than one-half of the marks in Clinical and Oral Medicine taken together, in Clinical and Oral Surgery taken together, in Operative Surgery, and in Clinical and Practical and Oral Midwifery, etc., taken together. All other candidates shall be deemed to have failed in the examination.

**29.** A candidate for the Final M.B. & B.S. Degree Examination shall be declared to have passed in Part I of the examination taken alone if he obtains not less than one-half of the marks in each subject. A candidate for the Final M.B. & B.S. Degree Examination shall be declared to have passed in Part II of the examination taken alone if he obtain

not less than one-half of the marks in each subject. All other candidates shall be deemed to have failed in the parts of the examination taken alone.

30. Successful candidates at the Final M.B. & B.S. Degree Examination shall be ranked in the order of proficiency as determined by the total marks obtained by each, and shall be arranged in two classes:—

The first, consisting of those who have obtained not less than two-thirds of the aggregate number of marks.

The second, consisting of all others.

Candidates who pass in the first class and who obtain not less than seventy-five per cent. of the marks in any subject shall be declared to have passed with distinction in that subject.

No candidate shall be ranked in the first class unless he has either passed the whole examination at one time or has passed each Part separately on the first occasion of appearing therefor obtaining not less than two-thirds of the marks in each part.

31. A candidate appearing for the Final M.B. & B.S. Degree Examination who has previously obtained the passing marks in a subject or subjects shall only be required to appear in the subject or subjects in which he has previously failed.

### Syllabus

#### INORGANIC CHEMISTRY FOR THE FIRST M. B. & B. S. EXAMINATION

Candidates will be expected to understand the elements of Chemistry included in the syllabus for the Chemistry part of the Intermediate Examination, and in addition to have an elementary knowledge of the following subjects:—

The general properties of solids, liquids and gases.

The gas laws and the kinetic theory of gases.

The general properties of solutions, including osmotic pressure and the methods of measuring it, both direct and indirect.

Electrolysis and the theory of ionic dissociation, including the theory of hydrogen-ion concentration and its measurement.

The law of mass action and its application to chemical equilibria.

Colloids, including the effect of surface on chemical actions.

Catalysis and the general conditions of catalytic actions.

Some elementary ideas on the constitution of matter, the classification of the elements and radioactivity.

### *Practical Examination*

Candidates will be expected—

to be familiar with the ordinary materials and apparatus used in laboratories, and with such operations as filtration, solution, distillation, drying, precipitation, crystallisation, and extraction with immiscible solvents;

to be familiar with the use of a chemical balance and the use and calibration of graduated flasks, pipettes and burettes;

to do easy preparations of inorganic substances;

to purify or to make an intelligent attempt to purify a known substance;

to perform simple quantitative exercises, such as the determination of melting points, boiling points, densities, and the determination of the amount of water in a substance or of the amount of ash left on the ignition of a substance;

to perform any easy gravimetric estimation, for example, a sulphate as  $\text{BaSO}_4$  carbon dioxide by direct weighing, chloride ion as  $\text{AgCl}$ , calcium as  $\text{CaO}$ ;

to prepare and use in simple volumetric estimations standard solutions of acids, alkalis, permanganate, iodine, thiosulphate and silver nitrate;

to determine the approximate hydrogen-ion concentration of a given solution by means of indicators;

to attack with intelligence any simple chemical problem, such, for example, as the separation of two known substances and the preparation of a standard solution of a substance that cannot be weighed.

The Examiners will use their discretion as to whether or not books may be allowed for the whole or part of the practical examination.

## PHYSICS FOR THE FIRST M.B. &amp; B.S. EXAMINATION

Candidates will be expected, in addition to the portions contained in the Physics syllabus of the Intermediate examination, to have an elementary knowledge of the following subjects:—

*General.*—Units of measurement and the measurement of small intervals of time.

The general properties of the three states of matter.

Periodic motion.

Surface energy and capillarity.

The gas laws and the kinetic theory of matter, including the theory of heat.

*Heat.*—Elements of meteorological physics.

Radiation.

*Sound.*—The theory of sound.

Sound producing and sound receiving instruments.

*Light.*—Elements of the wave theory of light including interferences, diffraction and polarisation.

The microscope in some detail.

Thick lenses.

The photographic camera, the spectroscope and the polarimeter.

*Magnetism and Electricity.*—Electrostatic instruments.

The capillary electrometer.

The thermopile.

Induced currents and Ruhmkorff's coil.

Some of the commonly used electrical appliances, such as the telephone, and the electric lamp.

Phenomena accompanying the passage of a current through vacuum tubes. X-rays. X-ray photography and X-ray spectra.

Candidates will be expected to have a practical knowledge of, and perform simple experiments in connection with the following subjects:—

*General.*—Length measurements, using verniers, micrometer screws, etc. Simple experiments with the pendulum.

The determination of the specific gravity of solids and liquids by the balance and by hydrometers.

The barometer and the corrections to be applied to it. Simple experiments on surface tension and capillarity.

*Heat.*—The determination of the fixed points of a thermometer and the comparison of thermometers.

The measurement of the expansion of solids, liquids and gases and the verification of the equation  $pV=RT$ .

Calorimetry and the method of mixtures.

Hygrometers.

The laws of cooling.

*Sound*.—The sonometer to investigate the vibration of strings.

The resonance column to determine the velocity of sound.

*Light*.—Experiments on the reflection of light from plane and curved surfaces, and the refraction of light at plane surfaces and through prisms.

The use of the spectroscope.

The determination of the optical constants of thin lenses.

The use of compound lenses and the microscope.

The use of the polarimeter.

*Magnetism and Electricity*.—The determination of the earth's magnetic field.

The use of simple galvanometers.

The measurement of resistance by Wheatstone's bridge and of electromotive force by the potentiometer.

Experiments illustrating the laws of electrolysis.

The use of a thermo-couple.

### Organic Chemistry (Including Biochemistry)

The examination in Organic Chemistry shall comprise the following:—

The ultimate analysis of organic compounds and estimation of carbon, hydrogen, nitrogen, sulphur, phosphorus and the halogens.

The determination of empirical molecular and structural formulæ, and of molecular weights of organic substances.

Isomerism and stereoisomerism.

The constitution and most important reactions and relationships of the following groups of compounds, illustrated in each case by a reference to a few of their more important members:—

**Aliphatic series:**—Paraffins. Unsaturated hydrocarbons. The different classes of alcohols and their derivatives. Halogen and nitro derivatives, of the hydrocarbons. Aldehydes. Ketones. Acids. Esters. Fats. Amines. Phosphines. Arsines. Aminoacids, Carbohydrates, sugars, starches, glucosides. Amides, cyanides, Urea, Purins.

**Aromatic series:**—The hydrocarbons and their simple derivatives Benzyl alcohol, benzoic acid, salicylic acid, gallic and tannic acids, phthalic acids.

Some elementary knowledge of the constitution so far as it is known, and the important reactions of—

The proteins. Creatine and creatine. Bile acids and cholesterol. The alkaloids. An Elementary knowledge of the following subjects:—Enzymes and their modes of action. Fermentation. The composition of food stuffs, and their fate in the body. The constituents of the blood, including blood gases. Respiratory exchange. Urine. Metabolism. The Ewald test meal.

### *Practical Work.*

The detection of the following elements:—Carbon, hydrogen, nitrogen, sulphur, phosphorus, iron and the halogens.

The preparation and hydrolysis of an ester, and of an amide.

The preparation of a fatty acid from a fat. The determination of the molecular weight of a fatty acid by titration.

The preparation of ozones.

The estimation of—

Nitrogen by Kjeldahl's method.

Urea by the hypobromite and urease methods.

Glucose, lactose, and cane sugar volumetrically and polarimetrically.

The detection of the constituents of food. The action of digestive juices on foods.

The action of rennet on milk. The reactions of bile pigments and bile salts.

The absorption spectra of hæmoglobin and its derivatives. The preparation of hæmin. The estimation of hæmoglobin. Experiments on blood coagulation and hæmolysis.

The detection and estimation of the principal normal and abnormal constituents of urine.

The estimation of sugar in blood.

The preparation of collodion sacs.

Simple experiments on colloids.

The practical use of buffer solutions.

The estimation of hydrogen-ion concentration calorimetrically.

Candidates will be required to bring to the practical examination note-books containing record of their previous practical work. These note-books must be certified by the teachers of the candidates as being the actual working notes made by them in the laboratory.

(Examiners will use their discretion as to whether or not the candidates may be allowed books for the whole or part of the practical examination.)

## BIOLOGY

The examination in *Biology* shall comprise the subjects included in the following syllabus, which is intended only to indicate its general scope and character:—

**A. General Biology.**

The distinctive properties of living and non-living matter.

The properties of protoplasm.

The cell. Cell division.

Tissues and organs. Division of physiological labour and differentiation of structure.

The differences between animals and plants.

**B. Botany.—**

The structure, life history, and physiology of yeast, Bacteria, Penicillium or other mould, Spirogyra, Chara, fern.

The elements of the morphology and physiology of the Angiosperms embracing (a) the structure (macroscopic and microscopic) of the root, stem and leaf; (b) the structure of a typical flower and modifications of the type; (c) the inflorescence, and the principal types of branching; (d) the structure and development of the seeds and embryo; (e) the principal types of fruits; (f) the dispersal of seeds and fruits; (g) the main facts in relation to nutrition, growth and reaction to environment.

The reproduction and life-history of Angiosperms.

**C. Zoology.—**

The structure, life-history, and physiology of Amoeba, Paramoecium, Hydra, earthworm, cockroach, frog, guinea-pig (only an elementary knowledge of the muscular system of the frog and of the muscular and nervous systems of the guinea pig will be required).

An elementary knowledge of the more important types of animal parasites. The general characters of the animal tissues. The leading types of reproduction in animals. The segmentation of the ovum in Amphioxus, frog, fowl, and guinea-pig.

**D. Variation, heredity, natural selection and evolution treated in an elementary manner.****Practical Examination.**

Each candidate must be prepared to examine microscopically to dissect, and to describe specimens or parts of the animal and plants enumerated in the foregoing syllabus, with the exception that for the skull of the guinea-pig will be substituted that of the dog.



## TIME-TABLE FOR EXAMINATIONS.

## FIRST M.B. &amp; B.S. EXAMINATION.

Days	Hours	Subjects	Marks
First day ..	10—1	Chemistry (written) ... ..	100
	2—5	Physics ( do. ) ... ..	100
Second day...	10—1	General Biology (Written)	100
Days and hours will be duly notified		Chemistry (Practical) ... ..	50
		Physics ( do. ) ... ..	50
		General Biology (Practical) ... ..	50
		Chemistry (Oral) ... ..	50
		Physics (Oral) ... ..	50
		General Biology (Oral) ... ..	50

## SECOND M.B. &amp; B.S. EXAMINATION

Days	Hours	Subjects	Marks
First Day	10—1	Organic Chemistry including Bio-Chemistry (Written) ... ..	50
	2—5	Physiology (Written) ... ..	100
Second day...	10—1	Anatomy including Elements of Human Embryology (Written) ... ..	100
Days and hours will be duly notified		Organic Chemistry including Bio-Chemistry (Practical) ... ..	50
		Do. (Oral) ... ..	50
		Anatomy including Elements of Human Embryology (Dissections) ... ..	50
		Physiology, including Histology and Chemical Physiology (Practical and Oral) ... ..	100
		Anatomy including Elements of Human Embryology (Oral)... ..	50

**THIRD M.B. & B.S. EXAMINATION**

Days	Hours	Subjects	Marks
First Day ...	{ 10—1 2—5	Materia Medica (Written) ... General Pathology ( do. )... ..	50 100
Second day ...	10—1	Hygiene (Written) ... ..	100
Days and hours will be duly notified.		{ Materia Medica (Oral) ... .. Practical Pharmacy... .. General Pathology (Practical) Do. Do. (Oral) ... .. Hygiene (Practical & Oral) ... ..	30 20 50 50 50

**FINAL M.B. & B.S. DEGREE EXAMINATION.**

Days	Hours	Subjects	Marks
First day ...	{ 10—1 2—5	Medicine including Therapeutics and Mental Diseases (Written) ... .. Ophthalmology (Written) ... ..	100 50
Second day...	{ 10—1 2—5	Surgery and Surgical Anatomy (Written) Medical Jurisprudence (Written) ...	100 100
Third day ...	10—1	Midwifery and Diseases of Women and the New-born Child (Written) ...	100
Days and hours will be duly notified.		{ Clinical Medicine ... .. Medicine (Oral) ... .. Clinical Surgery ... .. Surgery (Oral) ... .. Operative Surgery ... .. Midwifery, etc., (Clinical, Practical and Oral) ... .. Ophthalmology (Practical and Oral) ... Medical Jurisprudence (Oral) ...	150 50 150 50 50 100 50 50

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FORMS OF ANNUAL CERTIFICATES.

## FIRST M.B. &amp; B.S. EXAMINATION.

*I certify that to the best of my knowledge and belief.....  
.....completed the age of seventeen years on or before the  
date of admission to the Medical College.....that he has  
been engaged in medical studies for not less than an academic  
half year, and that his progress and conduct have been satisfac-  
tory.*

**Date.....**

*(Signature)*

*Principal, Medical College.*

*I certify that.....has attended a course of lectures  
on Inorganic Chemistry and a course of instruction in Practical  
Chemistry.*

**Date.....**

*(Signature)*

*Professor of Chemistry.*

*I certify that... ..has attended a course of Experi-  
mental Physics, including Practical Physics.*

**Date.....**

*(Signature)*

*Professor of Physics.*

*I certify that.....has attended a course of General  
Biology Theoretical and Practical.*

**Date.....**

*(Signature)*

*Professor of Biology.*

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SECOND M.B. & B.S. EXAMINATION.

## PART I

*I certify that ..... has been engaged in medical studies of the Medical College.....for not less than six months subsequently to passing or after completing and receiving the certificate for the course prescribed for the First M.B. & B.S. Examination, and that his progress and conduct have been satisfactory.*

*Date.....*

*(Signature)*

*Principal, Medical College.*

*I certify that.....has attended a course of lectures on Organic Chemistry including Bio-Chemistry and a course of instruction in Practical Organic Chemistry including Bio-Chemistry.*

*Date.....*

*(Signature)*

*Professor of Chemistry.*

## PART II

*I certify that.....has been engaged in medical studies at the Medical College.....for not less than one and a half years subsequently to passing or after completing and receiving the certificates for the course prescribed for the First M.B. & B.S. Examination, and that his progress and conduct have been satisfactory.*

*Date.....*

*(Signature)*

*Principal, Medical College.*

*I certify that.....has attended a course of instruction in Anatomy including Elements of Human Embryology, Theoretical and Practical.*

*Date.....*

*(Signature)*

*Professor of Anatomy.*

*I certify that.....has dissected for twelve months during the regular sessions and has completed the dissection of the human body.*

*Date.....*

*(Signature)*

*Professor of Anatomy.*

*I certify that.....has attended a course of lectures on Physiology and a course of instruction in Practical Physiology including Histology, and Chemical Physiology.*

*Date.....*

*(Signature)*

*Professor of Physiology.*

### THIRD M.B. & B.S. EXAMINATION.

*I certify that.....has been engaged in medical studies at the Medical College.....for not less than one year after passing the Second M.B. & B.S. Examination, and that his progress and conduct have been satisfactory.*

*Date.....*

*(Signature)*

*Principal, Medical College.*

*I certify that.....has attended a course of lectures on General Pathology and a course of instruction in Practical Pathology including Bacteriology.*

*Date.....*

*(Signature)*

*Professor of Pathology.*

*I certify that.....has attended a course of lectures on Hygiene and a course of instruction in Practical Hygiene.*

*Date.....*

*(Signature)*

*Professor of Hygiene.*

*I certify that.....has attended a course of lectures on Materia Medica and a course of instruction in Practical Pharmacy.*

*Date.....*

*(Signature)*

*Professor of Materia Medica.*

*I certify that.....has attended a course of instruction in Minor Surgery.*

*Date.....*

*(Signature)*

*Professor of Surgery.*

*I certify that.....has attended the medical practice of the.....Hospital for a period of three months and lectures on Clinical Medicine during such attendance.*

*(Signature)*

*Physician.....Hospital.*

*I certify that.....has attended the surgical practice of the .....Hospital for a period of three months and lectures on Clinical Surgery during such attendance.*

*(Signature)*

*Date.....*

*Surgeon.....Hospital.*

*I certify that.....has attended the outpatient department of the.....Hospital for a period of three months.*

*(Signature)*

*Date.....*

*Medical Officer.*

***I certify that.....has been engaged in post mortem room clerking for a period of one month.***

***(Signature)***

***Date.....***

***Professor of Pathology.***

**FINAL M.B. & B.S. DEGREE EXAMINATION.**

**PART I**

***I certify that.....has been engaged in medical studies at the Medical College.....for not less than one year subsequently to passing or after completing and receiving the certificates for the course prescribed for the Third M.B. & B.S. Examination, and that his progress and conduct have been satisfactory.***

***(Signature)***

***.....19 .***

***Principal, Medical College.. ..***

***I certify that.....has attended a course of lectures on Medicine, including Therapeutics.***

***(Signature)***

***.....19 .***

***Professor of Medicine.***

***I certify that.....has attended a course of lectures on Surgery.***

***(Signature)***

***.....19 .***

***Professor of Surgery.***

***I certify that, before commencing the study of Practical Midwifery.....has attended courses of lectures on Surgery and on Midwifery and Diseases special to women and the new born child.***

***(Signature)***

***Professor of Midwifery.***

---

*I certify that.....has attended a course of lectures on Medical Jurisprudence.*

*(Signature)*

.....19 .

*Professor for Medical Jurisprudence.*

*I certify that.....has attended a course of lectures on Ophthalmology.*

*(Signature)*

.....19 .

*Professor of Ophthalmology.*

*I certify that.....has attended the medical practice of.....Hospital for three months, and lectures on Clinical Medicine during such attendance.*

*(Signature)*

.....19 .

*Surgeon,.....Hospital.*

*I certify that.....has attended the surgical practice of the.....Hospital for three months, and lectures on Clinical Surgery during such attendance.*

*(Signature)*

.....19 .

*Surgeon,.....Hospital.*

*I certify that..... has attended the practice of the .....Hospital for three months.*

*(Signature)*

.....19 .

*Professor of Ophthalmology.*



*I certify that.....has been engaged in post-mortem room clerking for a period of two months.*

*(Signature)*

.....19 .

*Professor of Pathology.*

*I certify that.....has worked in the out-patient department of the.....Hospital for a period of three months.*

*(Signature)*

.....19 .

*Medical Officer,*

## PART II

*I certify that.....has been engaged in Medical studies at the Medical College.....for an additional year subsequently to passing or after completing and receiving the certificates for the course prescribed for Part I of the Final M.B. & B.S. Examination, that a period of three years has intervened between the date of passing the Second M.B. & B.S. Examination and that of admission to the Final M.B. & B.S. Degree Examination, and that his conduct and progress have been satisfactory.*

*(Signature)*

.....19 .

*Principal, Medical College,*

*I certify that.....has attended a course of instruction in Acute Infectious Diseases and that he has attended the Infectious Diseases Hospital for a period of two months and that he has attended not less than twice weekly during that period.*

*(Signature)*

.....19 .

*Medical Officer,*

.....Hospital.

*I certify that.....has attended a course of instruction in Operative Surgery.*

*(Signature)*

.....19 .

*Professor of Surgery,*

*I certify that.....has attended a course of lectures on Mental Diseases.*

.....19 .

*Professor of Mental Diseases.*

*I certify that.....has attended a series of eight Clinical Demonstration in Mental Diseases at a Mental Hospital of not less than fifty beds.*

*Superintendent,*

.....Mental Hospital.

.....19 .

*I certify that.....is qualified to perform Vaccination.*

.....19 .

*Deputy Inspector of Vaccination.*

*I certify that.....has attended a course of practical instruction in the administration of anaesthetics and has personally administered a general anaesthetic in at least six cases.*

.....19 .

*Physician or Surgeon,*

.....Hospital.

*I certify that in addition to the periods prescribed for Part I of the Final M.B. & B.S. Examination.....has attended the Medical and Surgical Practice of the.....Hospital during the fifth year of the course for the M.B. & B.S. Degree, for a period of six months.*

.....19 .

*Senior Medical Officer.*

.....Hospital.

*I certify that.....* *has regularly attended*  
*daily attended*  
*the practice of the.....Hospital for a period of*  
*three months.*  
*one month*

(Signature)

*Professor of Midwifery.*

*I certify that.....has personally attended.....*  
*cases of labour under my supervision, of which.....*  
*cases were conducted by him in my presence; also that, under my*  
*supervision, he attended in the cases enumerated during the puer-*  
*peral period.* ..

*Medical Officer,*

*Hospital,*

### M.B. & B.S. EXAMINATION.

#### CERTIFICATE OF FURTHER STUDY.

*I certify that.....has been re-engaged in medical*  
*studies for the.....Examination.....*  
*subsequently to his appearance at that examination in.....*  
*when he was referred to his studies by the Examiners, until the*  
*next succeeding examination, and that his progress and conduct*  
*have been satisfactory.*

*Date.....*

*Signed.....*

*Principal.*

*Medical College,*

Register Number			
Appearing for whole examination or in part or subjects			
Passing Marks		Part or subjects in which exemption has been granted	
33	100	Written	... 100
33	100	Practical	... 50
		Oral	... 50
33	100	Written	... 100
33	100	Practical	... 50
		Oral	... 50
33	100	Written	... 100
33	100	Practical	... 50
		Oral	... 50
33	100	Written	... 100
33	100	Practical	... 50
		Oral	... 50
300	600	Total Number of Marks obtained	
Whether passed or failed			
If passed, in what class ranked—			
Class I	... 400	Class II	... 300
Subjects, if any, in which distinction gained			
Subjects, if any, in which exemption now earned			
Remarks			

(1) First M.B. &amp; B.S. Examination

NUMBER OF MARKS OBTAINED

Chemistry

Physics

General Biology

## (2) Second M.B. &amp; B. S. Examination

Register Number				
Appearing for whole examination or in part or subjects				
Passing Marks	Part or subjects in which exemption has been granted			
50 •	150	Written ... 50		Organic with Bio-Chemistry.
		100	Practical and Oral	
50	100	Written ... 100		Physio-logy.
50	100	Oral and Practical	... 100	
50	100	Written ... 100		Anatomy including Elements of Human Embryology
50	100	Dissections ... 50		
		Oral ... 50		
275	550	Total Number of Marks obtained		
Whether passed or failed				
If passed, in what class ranked—				
Class I		... 367	Class II	... 275
Subjects, if any, in which distinction gained				
Subjects, if any, in which exemption earned				
Remarks				

\*Candidates appearing in Part I only must obtain 75 marks

Register Number				
Appearing for whole examination or in part or subjects				
Passing Marks	Part or subjects in which exemption has been granted			
33	100	Written ... 50	Materia Medica, and Practical Pharmacy	
		Practical ... 20		
		Oral ... 30		
50	100	General Pathology (Written) ... 100		
50	100	Practical ... 50	Pathology and Bacteriology (Practical and Oral)	
		Oral ... 50		
50	100	Written ... 100	Hygiene	
25	50	Practical and Oral ... 50		
225	450	Total Number of Marks obtained		
Whether passed or failed				
If passed, in what class ranked—				
Class I ... 300		Class II ... 225		
Subject, if any, in which distinction gained				
Subject, if any, in which exemption now earned				
Remarks				

**(3) Third M.B. & B.S. Examination**

NUMBER OF MARKS OBTAINED

## (4) Final M.B. &amp; B.S. Degree Examination

Register Number				
Appearing for whole examination or in part or subjects				
Passing Marks	Part or subjects in which exemption has been granted			
33	100	Written ...	50	Ophthalmology
		Practical and Oral ...	50	
50	150	Written ...	100	Medical Jurisprudence
		Oral ...	50	
125	Total in Part I ... 250			
Whether passed or failed in Part I				
50	100	Medicine including Therapeutics and Mental Diseases (Written) ...		PART II
		100		
100	200	Medicine (Clinical) ...	150	
		Medicine (Oral) ...	50	

NUMBER OF MARKS OBTAINED

50	100	Surgery and Surgical Anatomy (Written) ... 100	PART II— <i>contd.</i>	NUMBER OF MARKS OBTAINED— <i>contd.</i>
100	200	Surgery (Clinical) ... 150		
		Surgery (Oral) ... 50		
25	50	Operative Surgery ... 50		
50	100	Written ... 100		
50	100	Clinical, Practical and Oral ... 100		
425	Total in Part II		... 850	
Whether passed or failed in Part II				
550	1,100	Total Number of Marks obtained		
Whether passed or failed				
If passed, in what class ranked—				
Class I	... 733	Class II	... 550	
Subjects, if any, in which distinction gained				
Subjects, if any, in which exemption now earned				
Remarks				



**FORM OF APPLICATION FOR FIRST  
M. B. AND B. S. EXAMINATION.**

1

**FIRST M.B. & B.S.**

Name	English
	Vernacular
Age and date of birth	
Name and occupation of father or guardian	
Race (i.e., nation, tribe, etc.)	
Religion	
Address	
Date of passing the Intermediate or B.A. or B.Sc., or B.A. (Hons.) Degree Examination	
College or colleges at which candidate has studied Physics and Chemistry and Biology, and time at each	
Subjects in which the candidate has obtained exemption under the Regulations and in which he does not propose to appear	
Occasions, if any, on which the candidate previously appeared for the examination	
The period for which the candidate was referred to his studies, on each occasion of previous appearance at the examination	
Signature of Principal of College which candidate is attending at date of application	

**XXVII. FORM OF APPLICATION FOR SECOND  
M. B. AND B. S. EXAMINATION.**

1015

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**SECOND M. B. & B.S.**

<b>Name</b>	English
	Vernacular
Age and date of birth	
Name and occupation of father or guardian	
Race (i.e., nation, tribe, etc.)	
Religion	
Address	
Date of passing the First M.B. & B.S. Examination	
College or colleges at which candidate has prosecuted his medical studies since completing his course for the First M.B. & B.S. Examination and time at each	
The Part or Parts in which the candidate proposes now to appear. If the candidate is not required to appear in Part I, the date of passing in that Part	
If appearing for Part II only, the subjects in which he has obtained exemption (and the date of such exemption), and in which he does not propose to appear	
If appearing for the whole examination, the subjects in which he had obtained exemption (and the date of such exemption), and in which he does not propose to appear	
Subjects in which the candidate has obtained exemption under the Regulations and in which he does not propose to appear	
Occasions, if any, on which the candidate previously appeared for the examination	
The period for which the candidate was referred to his studies, on each occasion of previous appearance at the examination	
Signature of Principal of College which candidate is attending at date of application	

III

**THIRD M.B. & B.S.**

<b>Name</b>	<b>English</b>
	<b>Vernacular</b>
<b>Age and date of birth</b>	
<b>Name and occupation of father or guardian</b>	
<b>Race (i.e. nation, tribe, etc.)</b>	
<b>Religion</b>	
<b>Address</b>	
<b>Date of passing the Second M.B. &amp; B.S. Examination</b>	
<b>College or colleges at which candidate has prosecuted his medical studies since completing his course for the Second M.B. &amp; B.S. Examination and time at each</b>	
<b>Subjects in which candidate has obtained exemption under the Regulations and in which he does not propose to appear</b>	
<b>Occasions, if any, on which the candidate previously appeared for the examination</b>	
<b>The period for which the candidate was referred to his studies, on each occasion of previous appearance at the examination</b>	
<b>Signature of Principal of College which candidate is attending at date of application</b>	

**XXVI] FORM OF APPLICATION FOR FINAL  
M. B. AND B. S. DEGREE EXAMINATION.**

**1017**

iv

**FINAL M.B. & B.S.**

Name	English
	Vernacular
Age and date of birth	
Name and occupation of father or guardian	
Race (i.e., nation, tribe, etc)	
Religion	
Address	
Date of passing the Third M.B. & B.S. Examination	Date of passing Anatomy and Physiology in the 2nd M.B. & B.S. Examination
College or colleges at which candidate has prosecuted his medical studies since completing his course for the Third M.B. & B.S. Examination, and time at each	
The Part or Parts in which the candidate proposes now to appear. If the candidate is not required to appear in Part I, the date of passing in that Part	
If appearing for Part II only, the subjects in which he has obtained exemption (and the date of such exemption), and in which he does not propose to appear	
If appearing for the whole examination the subjects in which he has obtained exemption (and the date of such exemption), and in which he does not propose to appear	
Occasions, if any, on which the candidate previously appeared for the examination	
The period for which the candidate was referred to his studies, on each occasion of previous appearance at the examination	
Signature of Principal of College which candidate is attending at date of application	

## APPENDIX XXVII.

### Diploma in Economics

REGULATIONS WHICH WERE IN FORCE PRIOR TO 1929-30.

1. No candidate shall be eligible for the Diploma in Economics unless he has completed the prescribed course of study and has satisfied the Examiners in the qualifying examination. The examiners may declare any candidate to have passed the examination with distinction.

#### Courses of Study

2. The courses of study shall be—

- i. Economic Theory.
- ii. Economic Geography and recent Economic History.
- iii. (a) Rural Economics with special reference to South India.  
(b) Industrial Organization with special reference to India.  
(c) Currency and Banking with special reference to India.  
(d) International Trade with special reference to India.
- iv. Applied Economics.
- v. A special subject.

3. The course of study shall be open to.

- (a) students who have qualified for a degree in this University;
- (b) other students whose applications have been approved by the Syndicate.

4. Applications to enter upon the course of study from students who have qualified for a degree in this University must reach the Registrar not later than June 15, and from other

students not later than March 31: in the case of the latter each application must be accompanied by satisfactory evidence that the applicant is qualified to enter upon the course of study with profit.

**Duration of Course** 5. The course for the Diploma in Economics shall be a part-time course and shall extend over a period of two years.

**Attendance** 6. No student shall be admitted to the examination unless he has attended not less than three-fourths of the lectures and classes provided, and also produces the prescribed certificate.

**Fee** 7. A fee of Rs. 75 be paid to the University by each student on admission to the course, payable in two annual instalments of Rs. 37-8 each.

**Syndicate competent to suspend course and examination.** 8. Notwithstanding anything contained in the foregoing Regulations, it shall be competent to the Syndicate, by previous notice, in the *Gazette*, to suspend for any year or any number of years the courses and examinations for the Diploma in Economics, (or to confine their operation to one or other of the two classes of students named in Regulation 5) ; provided always that any student permitted to enter upon the courses, who qualifies for the certificate prescribed in Regulation 6, shall be permitted to present himself for examination in accordance with the Regulations, at the earliest opportunity at which he would have been entitled to appear but for suspensory notice.

9. Notwithstanding anything contrary contained in this Chapter, students who have undergone one year's part-time Diploma course under the old Regulations will be permitted to complete their course under the new Regulations by attending the Diploma classes for another academical year on payment of a fee of Rs. 50,

**1020 TIME-TABLE FOR THE EXAMINATION FOR [APP.  
DIPLOMA IN ECONOMICS.**

<b>Time-table for the Examination</b>		
<b>Days</b>	<b>Hours</b>	<b>Subjects</b>
<b>First day ...</b>	10—1	<b>Economic Theory</b>
	2—5	<b>Economic Geography and recent Economic History</b>
<b>Second day</b>	10—1	<b>Rural Economics and Industrial organization.</b>
	2—5	<b>Currency and Banking and International Trade</b>
<b>Third day ...</b>	10—1	<b>Applied Economics</b>
	2—5	<b>Special Subject</b>

**APPENDIX XXVIII.****Rules relating to grant of exemption to *bona fide* certificated Teachers.**

The following general principles have been framed by the Syndicate on the resolution of the Academic Council *re* conditions under which exemption may be granted to *bona fide* certificated teachers:—

1. (i) That only those applications for exemption should be considered which come from certificated teachers employed in schools (also training schools provided the applicant is engaged in teaching ordinary school subjects and not professional subjects (i) recognised by the Madras University and by the Directors of Public Instruction, Madras, Cochin, Travancore and Hyderabad, and the Chief Educational Officer, Pudukottah, and situated within the jurisdiction of the Madras University.
- (ii) That applications for exemption should be made by those teachers with the permission of their Managements and that the Managements should certify that the applicants are *bona fide* teachers in their respective institutions.
- (iii) That certificated teachers applying for exemption should have been in service, after completing the Training Certificate, for not less than three consecutive years on the date of the application. In the case of candidates in possession of a Trained Teacher's Certificate which has been raised from a Lower Grade to a Higher Grade, (Secondary Grade Trained Teacher's Certificate) a service of three years from the date of the issue of the Higher Grade Teacher's Certificate shall be insisted upon.



- (iv) That every teacher should give a declaration when applying for exemption that he has adopted teaching as his profession and *has been in service as a Trained Certificate Teacher for not less than three consecutive years on the date of the application.*

II. *Matriculation Examination.*—In regard to applications from certificated teachers for exemption to appear for the Matriculation Examination it has been resolved—

- (i) that applications be not entertained from Lower Elementary trained teachers;
- (ii) that every applicant for Matriculation exemption should be at least a Higher Elementary trained teacher, and should further have completed a course of study in the Fourth Form.

III. *Intermediate Examination.*—It has been resolved (i) that applicants for exemption to appear for the intermediate Examination should be trained *certificated* teachers of the Secondary Grade and (ii) that they should either have passed the Matriculation Examination of the Madras University or an examination recognised as equivalent thereto or have been placed on the list of candidates declared eligible for admission to courses of study in the Madras University on the results of the S.S.L.C. or E.H. S. L. Examination; provided that two years must elapse between the date of passing the Matriculation Examination or other qualifying Examination and that of appearing for the Intermediate Examination.

Certificates of S.L. candidates issued prior to 1916 will be scrutinized; and each case will be decided on its merits according to the rules of eligibility in force at the time of the application.

IV. *B.A. Degree Examination.*—It has been resolved (i) that every teacher applying for exemption to appear for the B.A. Degree Examination should be a *certificated* teacher of the Secondary Grade and should have also passed the Intermediate Examination of the Madras University or an examination recognised as equivalent thereto; pro-

vided that two years must elapse between the passing of the Intermediate or other qualifying examination and appearing for the B.A. Degree Examination; (ii) that if he proposes to appear for a Science Group which requires a practical training in a Laboratory, he should produce a certificate of having done the prescribed laboratory work from the Professor of a Constituent or an Affiliated first grade College countersigned by the Principal of that College.

*Note.*—The last dates for the receipt of applications for exemption in this office are the 1st October and 1st March preceding respectively March—April and September—October Examinations of any year.

Application from untrained teachers holding licenses granted by the Government of Madras, Travancore, Cochin or Hyderabad will not be considered.

Matriculation Examination is held only once a year in the month of March.

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## APPENDIX XXIX

### \*FINANCIAL AND ACCOUNT RULES

#### CHAPTER I

##### INTRODUCTION

The rules in this chapter and in the next shall be called the Financial and Account Rules respectively of the Madras University. These rules are inter-related and they are intended to serve as guidance of the various officers and servants of the University, the authorities of the University and of the Audit Department. These rules do not supersede the provisions of the Madras University Act of 1923 and of the Laws of the University but supplement the instructions contained therein. The term "Act" wherever used in these rules shall mean "The Madras University Act of 1923." The primary responsibility of enforcing strict compliance with the provisions of these rules by the various officers and servants of the University shall rest with the Syndicate. Any modifications or additions to these rules shall require the approval of the Senate.

##### FINANCIAL RULES

1. Save as otherwise provided in the Laws of the University or in these rules, the Syndicate shall bring every item of expenditure under its direct control and see that no expenditure or liability is incurred without its previous sanction.

2. Save as otherwise provided in the Laws of the University, no scheme of any kind to be financed either by the Government or by the University shall be undertaken by the Syndicate without the previous approval of the Senate.

3. No powers vested in the Syndicate by the provisions of the Act or of the Laws of the University in regard to financial matters shall be delegated to, or exercised by, any Officer of the University or other person or persons without the specific sanction of the Senate.

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\*The Financial and the Account rules were adopted by the Senate at its meeting held in October 1927.

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4. No authority or Officer shall exercise its or his powers of sanctioning expenditure to pass an order which will be directly or indirectly to its or his own advantage.

5. The Syndicate, or any officer to whom a financial delegation has been made shall not incur any expenditure which involves or is likely to involve at a later date expenditure beyond its or his powers of sanction.

5. (a) The mere fact that a certain expenditure or class of expenditure has been provided for in the sanctioned budget estimate or can be met from the anticipated or actual savings under any head is no authority for any officer to incur without obtaining the sanction of the competent authority.

6. The conditions which govern the delegation under these rules to any officer of the University shall be incorporated in the financial rules from time to time.

7. The Syndicate shall have power to write-off the irrecoverable value of shortage of stock or irrecoverable loss of money occasioned by fraud or neglect of duty of University officers and servants, or, otherwise, up to a total limit of Rs. 250 in a year. The writing-off of amounts exceeding this limit in a year shall require the sanction of the Senate.

8. All arrear or supplemental claims not preferred within 6 months of their becoming due shall be investigated by the Syndicate and paid under its orders. Arrear or supplemental claims not preferred within one year of their becoming due shall likewise be investigated and may be paid by the Syndicate. Any such payment shall be reported to the Senate at its next meeting. The date of the claim shall be deemed to commence from the date on which services have been fully rendered or supplies actually made and received by the University offices concerned.

9. Save as otherwise provided in these rules, arrangements for the purchase of articles, for printing and binding works of over Rs. 500 and for works of construction and repairs including electric fittings and repairs of over Rs. 750

shall be made only by inviting competitive tenders as hereunder.

10. The Registrar shall invite tenders in the manner prescribed in rules 13 to 17 in respect of any article or group of articles that may be purchased in a year, if its cost exceeds Rs. 500 and in respect of original works and repairs including electric fittings and repairs, if the estimated cost exceeds Rs. 750.

11. Tenders shall be invited for all articles of stationery including paper for office use and printing purposes and paper to be supplied by the University to its printers, exception being where such articles are purchased from the Superintendent of Stationery, Madr....

12. Tenderers shall ordinarily be asked to offer their rates against the details of the work furnished in the tender form, for all or any of the classes of printing and binding.

13. The Registrar or any other officer of the University authorised to invite tenders for printing and binding works shall maintain a list of all printing and binding works usually executed for the University. Any additions to, or deletion from, the list will require the previous sanction of the Syndicate.

14. The tender forms to be issued shall contain detailed specification for each unit of work to be executed or article to be supplied and shall be those approved by the Syndicate.

15. All round rates complete with cost of printing, etc., shall ordinarily be called for in all cases. Where, however, it is not possible to do so, the tender form supplied by the University office to the tenderers shall contain the details of printing and binding work of the University against which the tenderers should be asked to record their rates in figures as well as in words.

16. Whenever tenders are called for, the Registrar who is authorised to purchase materials or arrange for the printing and binding works of the University and for supplies and services connected with the works of construction

and repairs including electric fittings and repairs by calling for tenders, shall invite sealed tenders for the purpose in the most open and public manner possible, i.e., advertisement in the *Fort St. George Gazette* and daily papers specified in this behalf by the Syndicate, circular communications to reputed dealers and contractors and hanging the tender notification in a prominent place on the walls of the University offices, provided that in cases in which the estimated value of supplies and services in respect of which tenders are to be invited, does not exceed Rs. 1,500, it shall not be necessary to publish the tender notification in the daily papers.

17. The advertisements and circular communications should state the place where, the last date on which, and the time when, tenders are to be submitted and also the place where, the day on which, and the time when, they will be opened.

18. In the case of contracts for supplies and services which are estimated to cost more than Rs. 5,000, at least one month's time from the date of tender notification shall be allowed to tenderers for the submission of the tenders to the University officer mentioned in the notification. In all other cases the time allowed shall be at least three weeks.

19. No tender shall be accepted from any employee of the University.

20. The sealed covers, as they are received, should be kept in the personal safe custody of the Registrar, till the hour at which they are to be opened as specified in the tender notification.

21. The Registrar or in his absence any person nominated for the purpose shall open the tender covers in the presence of the tenderers or their authorised agents, if they choose to be present on the occasion.

22. Over-writings, erasures and unauthorised alterations in the rates tendered should be scrupulously guarded against. Any alterations of the rates found at the time of opening the sealed covers to have been duly attested by the dated initials of the tendered should be immediately re-

attested by the dated initials of the Registrar or any other person authorised to open the sealed covers.

23. A comparative statement of the rates tendered shall be carefully made out under the supervision of the Registrar and this statement together with the tendered rates and connected papers shall be submitted to the Syndicate in a confidential box.

24. Other conditions being equal, the lowest tender shall be accepted by the Syndicate; but the acceptance or rejection of tenders is left to the discretion of the Syndicate and no tenderer shall be entitled to be told the cause of the rejection of his offer.

25. In all cases in which the lowest tender has not been accepted by the Syndicate, there shall be a specific resolution of the Syndicate to that effect.

26. In cases where tenders are not invited, the estimated amount falling below the prescribed figure, the course adopted shall be to call for quotations from well-known firms or dealers, and the lowest rates, shall, as far as possible, be accepted.

27. An agreement shall be entered into with the successful tenderer. The form of the agreement may be determined by the Syndicate from time to time.

28. The period of contract shall not ordinarily exceed one year. In the case of general printing and binding, the Syndicate may at its discretion fix the period at two years; while in the case of printing calendars the period may, be fixed up to a maximum of five years. Special contracts, however, may be made by the Syndicate in special cases.

**Note.**—These rules shall however not apply to confidential printing.

29. All agreements shall be signed by the Registrar on behalf of the University, provided that agreements in respect of contracts of the value of Rs. 500 and above, shall be written on stamped paper.

30. A fixed price or rate shall be settled for each article to be supplied or unit of work to be executed and the agreement shall not provide for rates fluctuating with the market.

31. Claims on account of printing and binding works executed for the University shall be subject to the technical scrutiny or check by the Superintendent, Government Press, Madras, or by any other agency duly appointed by the Syndicate in this behalf. Disallowances made as a result of such technical scrutiny will ordinarily be recovered from the printers and binders, unless the disallowance is partly or wholly objected to by the printers and binders and the Syndicate for reason to be recorded in writing is satisfied that the objection is in order.

32. *Works and Repairs.*—All original works, the estimated cost of which is Rs 10,000, or more shall require the previous approval of the Senate. In respect of works and repairs including electrical fittings and repairs detailed estimates and plans shall be prepared ordinarily in consultation with the Madras Public Works Department and scrutinised and sanctioned by the Syndicate. Any deviation from the sanctioned original estimates or plan shall require the previous approval of the Syndicate.

33. *Scientific apparatus, Appliances, and Chemicals and Books and Periodicals.*—With regard to the purchase of apparatus and chemicals for research and experimental purposes of the University and the purchase of books and periodicals, the officer responsible for the purchase shall take all reasonable steps to obtain the articles from the cheapest source with due regard to quality.

34. *The Clerical, and Menial establishments of the University.*—Save as otherwise provided in the Laws of the University, the rules and conditions governing the grant of leave and pension or gratuity, the payment of leave, and acting or duty allowances, compassionate allowances, gratuity, pension and commutation of pension, the condonation of deficiency or interruptions in service, extensions and the termination of service shall be the same as are applicable to servants in Corresponding Establishments in the service of the Government of Madras; and powers of



sanction in regard to these, shall be exercised by the Syndicate only to the extent to which they can be exercised by the Local Government, in respect of servants in Corresponding Establishments in their service. Any exercise of powers in excess of the above can be made only by the Senate.

35. A roll shall be maintained by the Registrar to show the sanctioned strength and scales of pay and allowances, if any, of the clerical and menial establishments in respect of each of the offices of the University. Every alteration, either in the strength, or in the scales of pay and allowance, shall receive the previous sanction of the Syndicate, to which should be submitted a proposition statement showing the present and proposed strength and scales of pay and allowances and explaining the necessity for the increase or decrease, as the case may be.

36. Temporary appointments in the clerical and menial establishments of the University, carrying definite rates of pay may be sanctioned by the Syndicate, ordinarily for not more than six months at one time; extensions may be granted by it from time to time, as occasion demands.

37. The power of creating and abolishing appointments, temporary or permanent, in the clerical and menial establishments of the University shall always be vested in the Syndicate.

38. Appointments to clerical posts shall ordinarily be made from amongst the candidates whose age does not exceed twenty-five at the time of appointment. The Syndicate, however, shall have the power to grant exemptions in special cases up to the age of thirty.

39. The appointments, and conditions of services of and the grant of leave, vacation, pension, etc., to the other servants and officers of the University shall be in accordance with the provisions of the Laws of the University.

40. The Syndicate shall issue to the Registrar such instructions as may be necessary to afford facilities for independent and thorough audit of the receipts and expenditure of the University. In cases in which any document required to be produced in audit cannot be so produced in

the interest of the University the Registrar shall obtain the special orders of the Syndicate and communicate a copy thereof to the Audit Department.

41. The Registrar shall be entitled to correct mis-statements of fact and to remove misunderstanding by furnishing further information, if necessary, in regard to audit notes but shall submit to the Syndicate for its orders all cases in which, in his opinion, there has been a trespass of the audit province.

42. The audit notes and further correspondence received from the audit department should be considered each time by the Syndicate or its Finance Committee before final replies thereto are issued from the University Office. All suggestions of the audit department to improve the finances of the University and system of accounts and any request to obtain the sanction of higher authority to any item of expenditure or to place before the Syndicate any irregularities, unauthorised or excess payments, shall be placed before that body as early as possible and its orders taken before replies are issued.

## CHAPTER II.

### ACCOUNT RULES.

1. All transactions to which any officer of the University in his official capacity is a party, shall be brought to account, and all moneys received should be paid in full without undue delay into a Treasury or into the Bank with which the University has transactions, to be credited to the appropriate account of the University. The appropriation of receipts to expenditure on hand is prohibited.

2. All moneys received in the University Office shall immediately be entered in a subsidiary cash register under the dated initials of the Accountant of the Registrar's Office with full particulars of the receipt. The cash, currency notes or cheques received shall be sent to the Bank with the counterfoil of the Bank Chalan for credit to the appropriate funds of the University, on the same day of receipt, if possible, or, on the next working day, positively. The Government and other Securities received shall be

entered in the Register of Securities and forwarded to the Bank for safe custody and for realisation of interest thereon on the due dates.

3. The Registrar or any other officer of the University authorised in this behalf by the Syndicate shall grant receipts for all cash received by him for credit to the University funds. A Counterfoil receipt book shall be maintained for this purpose.

4. When a remittance is to be made to the Bank the money column of the subsidiary cash book shall be totalled and a red-line shall be drawn across the book below the total. The Registrar shall initial against the total of the remittance in the subsidiary cash book.

4. (a) The un-remitted cash should be counted daily and a memo, should be prepared showing the particulars of the cash balance on hand and the number and value of currency notes and cheques. The memo., the cash balance and the currency notes and cheques shall be placed in a cash box and handed over to the Registrar before the office closes for the day. This money should be kept distinct from the Registrar's imprest money for petty expenditure.

5. The Registrar shall be responsible for the collection of examination and other fees at the prescribed rates and for taking the necessary steps for the realisation of Government grants and other dues to the University.

6. All cash and accumulated balances in the University Fee Fund shall remain in the custody of the Accountant-General, Madras.

7. Accumulated and surplus cash balances under any account of the University which are not required for immediate expenditure shall be invested by the Syndicate in any of the Securities authorised under Section 20 of the Indian Trusts Act, 1882, or in fixed deposits with a Bank approved in this behalf by the Government.

8. The Registrar shall submit on, or, about the 20th of every month, a statement to the Syndicate showing the surplus cash under each account that will not be required

for expenditure during the minimum period up to which money will be accepted by the Bank for investment in deposits. The Syndicate shall decide the nature of the investment and also the amount to be invested. Even if no adequate cash surplus exists in any month under any of the accounts of the University, for investments in Government Securities or in fixed deposit with the Bank, a statement to that effect against the name of the accounts concerned shall be submitted to the Syndicate.

9. The Registrar shall maintain a register of Government and other Securities and fixed deposits with the Bank in which all Government and other Securities and fixed deposits with the Bank held in the name of and to the credit of the University shall be accounted for. (Form A).

10. The Registrar shall be responsible for the correct calculation of interest on fixed deposits with the Bank and on Government and other Securities and for their realization on the due dates. He shall also watch the date or dates on which the deposits or Securities will mature and intimate the fact to the Syndicate sufficiently in advance, so that the latter may decide the best method of the disposal of the money to be realised.

11. The entries in the subsidiary cash register shall be carried forward to the general account book of the accounts concerned which will be in Form B. In cases in which Bank or Treasury receipts or Bank advices are received in support of payments to the credit of the University funds, of moneys not directly received in the University Offices, the Bank or Treasury receipts or Bank advices shall, as far as possible be arranged in chronological order, and the amounts entered therein with particulars of receipts, etc., shall be posted in the general account book of the accounts concerned.

12. The safe-custody receipts granted by the Bank in respect of Government and other Securities held by the Bank on behalf of the University and receipts for fixed deposit in the Bank shall be in the custody of the Registrar and secured in his iron-safe.

13. The sale-proceeds of condemned and unserviceable articles and of old newspapers, etc., will be credited to the funds from which the charges on account of these were originally incurred. The articles which do not belong to the University left unclaimed for over three months will be sold in auction and the sale-proceeds, credited to the University Fee Fund, after due notice in the Gazette.

14. Recoveries of over-payments relating to the current year shall be shown as abatement of charge of the accounts concerned. If the overpayments relate to previous years, the accounts of which have been finally closed, the recoveries will be taken as direct receipts to the accounts concerned.

15. Sale-proceeds of garden produce and lease of trees, etc., shall be credited to the funds of the University, out of which, are paid the Municipal tax and gardeners' wages, if any.

16. The Registrar shall once a month examine the general account book of the various accounts of the University, and the subsidiary cash register and satisfy himself that all moneys received have been promptly remitted into the Bank to the credit of the appropriate accounts of the University, that amounts due have either been collected and remitted into the Treasury or Bank or, steps have been taken to accelerate the payment of dues to the University, and, that all amounts paid directly at the University Offices or advised in the Treasury or Bank Chalcans or advised in the Bank memos. or in the memos. of the Accountant-General, Madras, have been recorded on the receipt side of the general account book of the accounts concerned.

17. Stock Books showing receipt, issues and balances, shall be maintained in the following cases in a form prescribed for the purpose by the Syndicate:—

(1) Stationery, printed forms, and answer-books.

(2) Books and periodicals purchased or received gratis in the University offices, University Calendars, Question paper volumes, text-books

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and other academic publications, lists of registered graduates, Matriculation Syllabus, etc.

(3) Furniture.

(4) Office cycles and typewriters.

(5) Chemicals, Scientific instruments and appliances.

(6) Tools and plant and other stores.

*Note.*—The offices of the University that receive the above articles and have them in their custody shall maintain the respective stock books.

18. Each time when an article is received, it will be entered in the column of receipts and when issued, in the column of issues in the stock register. The balance after each issue should be struck and recorded in the column 'balance' in the stock register.

*Note.*—For the purpose of this rule, articles issued shall include articles condemned as unfit for use.

19. All issues will be made on indents duly passed by a responsible officer or servant of the University approved by the Syndicate. The actual quantity issued will be noted on the indents under the dated initials of the issuing clerks. These indents, after issue of articles, shall be filed chronologically in guard files.

20. The stock except furniture and books (in the University Libraries) shall be verified by a responsible officer of the University once in six months. The stock of books in the Libraries shall be verified once in two years by a person appointed by the Syndicate in this behalf. In other cases the verifying officer may be appointed by the Vice-Chancellor. The stock of furniture will be verified once a year, preferably in the month of May.

21. The result of verification shall be recorded in the Stock Register concerned under the dated signature of the verifying officer, and the report of the verifying offices will be submitted to the Syndicate which shall take the necessary action thereon.

22. The excesses noticed during stock-taking or, earlier, will be noted in the receipts column of the Stock Register. The shortages of stock will be shown as deduction from receipts and the stock books will then be balanced

23. The stock books shall be closed once a quarter over the dated signature of the Registrar or any other officer of the University who is to maintain the stock books. The closing balances under each article in the stock books at the end of a year will be attested by the initials of the respective officers. These attested closing balances will be carried forward as opening balances of the next year. These opening balances will also be similarly attested by the initials of the officers concerned.

24. A register shall be maintained in form D in which will also be recorded a short description of all the immovable properties of the University.

25. Deposit accounts shall be maintained (1) in the case of deposits received as earnest moneys from tenderers and (2) in the case of moneys received as readers' deposits in the Library Offices.

26. These deposit moneys shall be deposited in the Bank or in the Post Office Savings Bank and kept distinct from the other accounts of the University.

27. The deposits will be in the name of the officer of the University approved by the Syndicate in this behalf.

28. The deposit moneys are repayable to the persons concerned in accordance with the rules and conditions laid down in this behalf by the Syndicate.

29. The amount realised as interest on readers' deposits shall be credited to the Library accounts.

30. An advance register shall be maintained to record the amounts advanced in respect of any supply or services to the University, the name of the persons to whom, and the date on which, such advances were paid and the dates on which such advances were adjusted or repaid.

31. The sanction of the Syndicate shall be necessary to the grant of any advance.

32. Fines and forfeitures shall be credited to the accounts of the University from which payments for the relevant supplies and services are made.

33. A classified abstract of receipts and charges shall be maintained in respect of the transactions of all the accounts of the University except the endowment account in respect of which a ledger with separate pages for each endowment is maintained.

*Note.*—This register will be posted from the entries in the general account book each month after the monthly accounts are closed.

33-A. The classification of the receipts and charges of the University shall be as shown below:—

## CLASSIFICATION OF RECEIPTS AND CHARGES

### Receipts

#### I—University Fee Fund

##### A—GENERAL.

1. Compensation for the acceptance of the Secondary School-Leaving Certificate Scheme.
2. Interest on Government Securities and Deposite.
3. Grant from Government to meet charges of Notifications in the *Fort St. George Gazette*.
4. Fees for—
  - i. Certificates.
  - ii. Copies of application forms.
  - iii. Registration of Graduates.
  - iv. Recognition of change of name.
  - v. Degrees in Absentia.



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- vi. Furnishing marks to candidates.
  - vii. Admission to M.A. Degree at Convocation.
  - vii. Exemption from the production of attendance certificates.
  - ix Recognition of examinations of other Universities.
  - x. Scrutiny of Secondary School-Leaving Certificates of candidates for eligibility purposes.
  - xi. Registration as a Matriculate.
  - xii. Diplomas.
5. Sale of Calendars and lists of registered graduates.
6. Miscellaneous.  
(Deduct) Refunds.

#### B—EXAMINATION FEES.

1. Arts and Science Examinations:—
- i. Matriculation.
  - ii. Intermediate.
  - iii. B.A. (Pass course).
  - iv. B.A. (Hons. Preliminary).
  - v B.A. (Hons. Degree).
  - vi. M.A. Degree.
  - vii. Examination for Diploma in Economics.
  - viii. B.Sc. Degree.
  - ix. D.Sc. Degree.
  - x. M.Sc. Degree.
  - xi. Ph.D. Degree.
2. Professional Examinations:—
- i. Teaching—L.T. Degree.

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- ii. Law—First Examination in Law.  
     B.L. Degree. .  
     M.L. Degree.
- iii. Medicine—First M.B., B.S.  
     Second   "   "  
     Third    "   "  
     Final     "   "  
     B.S.Sc. Degree.  
     M.D. Degree.  
     M.S. Degree.
- iv. Engineering—First Examination in Engineer-  
     ing.  
     B.E. Degree.
- v. Agriculture—B.Sc. Ag. Degree.
- vi. Oriental Title Examinations—Preliminary.  
     Final.
- Proficiency test*
3. Penalty for late payment of examination fees.
4. Miscellaneous.

(Deduct) Refunds.

## II.—Endowment Account

- i. Receipts during the year in cash, and in Government and other Securities for endowing scholarships, medals, etc.
- ii. Interest realised on Government and other Securities and Deposits.

### III.—Vacation Lectures Account

Interest realised on Government Securities and Deposits.

### IV.—Library Account

#### i. Transfers from—

(a) Special Grant Account.

(b) Statutory Grant Account.

#### ii Interest realised on Government Securities and Deposits.

#### iii. Miscellaneous.

### V.—Statutory Grant Account

#### i. Grants from Government during the year.

#### ii. Transfer from the Non-Recurring Grant Account.

#### iii. Transfer from the Special Grant Account.

#### iv. Interest on Government Securities and Deposits.

#### v. College Affiliation and Recognition Fees.

#### vi. Miscellaneous.

### VI.—Special Grant Account

#### i. Grants from Government on account of—

(a) Vice-Chancellor's salary.

(b) Travelling Allowance to members of University authorities.

(c) Books and periodicals for the University Library.

(d) Department of Indian Economics.

(e) Research Laboratories in Science subjects.

- (f) Institute for advanced studies of Oriental Languages.
  - (g) School of Mathematics.
  - (h) School of Philosophy
  - (i) University Students' Information Bureau.
  - (j) Subsidy to meet charges of printing Notifications, etc., in the *Fort St. George Gazette*.
- ii. Interest on Government Securities and Deposits.

#### VII.—Library Building Account

- i. Transfer from the Statutory Grant Account.
- ii. Interest on
  - (a) Government Securities and Deposits.
  - (b) Rs. 50,000 transferred from the allocation for books.
- iii. Miscellaneous.

#### VIII.—Tamil Lexicon Account

- i. Grants from Government.
- ii. Interest on Government Securities and Deposits.
- iii. Sale-proceeds of copies of Tamil Lexicon.
- iv. Miscellaneous.

#### IX.—Publication Account

- i. Receipts on account of—
  - (a) Sale of Text-books.
  - (b) Sale of other publications.
- ii. Interest on Government Securities and Deposits.
- iii. Miscellaneous.

**X.—Research and Development Fund Account****i. Transfers from—**

(a) Statutory Grant Account.

(b) Special Grant Account on account of

(1) Research Laboratories in Science subjects.

(2) Institute for advanced studies of Oriental Languages and

(3) Schools of—

(c) Fee Fund Account, being the interest on Government Securities under that Fund

**ii. Interest on Government Securities and Deposits.**

**iii. Miscellaneous.**

*Note.*—Separate Accounts will have to be maintained in respect of each item under i (b).

**XI.—Economics Account**

**i. Transfer from Special Grant Account.**

**ii. Tuition Fees.**

**iii. Interest realised on Government Securities and Deposits.**

**iv. Miscellaneous.**

**XII.—Provident Fund Account**

**i. Subscriptions.**

**ii. Contributions.**

**iii. Interest realised on subscription and contributions.**

**iv. Miscellaneous.**

## **Charges**

### **I.—University Fee Fund**

#### **A.—GENERAL ADMINISTRATION**

- i. Pay of officers—Registrar.
- ii. Pay of Establishment—Clerks and Servants.
  - (a) Permanent.
  - (b) Temporary.
- iii. Allowances—(a) Duty and other allowances.
  - (b) Travelling Allowance.
- iv. Pensions and Gratuities.
- v. Contribution to Provident Fund Account.
- vi. Contingencies—
  - (a) Stationery, printing and binding charges—
    - (1) Calendars.
    - (2) Minutes, Agenda, Budget Estimates, Annual Reports, etc.
    - (3) Gazette Notifications.
    - (4) Miscellaneous (including stationers and forms for office use).
  - (b) Service postage and telegram charges.
  - (c) Purchase and repair of furniture, typewriters and Office cycles.
  - (d) Municipal taxes.
  - (e) Electric current charges.
  - (f) Telephone charges.
  - (g) Books and periodicals.
  - (h) Repairs to the Senate House.
  - (i) Wages of menials.
  - (j) Cost of liveries supplied to peons.
  - (k) Cost of arrangements for Convocations.
  - (l) Miscellaneous.

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**B.—EXAMINATION CHARGES**

- i. Remuneration to Examiners and Question Paper-Setters.
- ii. Tabulation charges.
- iii. Travelling Allowance to Examiners and Question Paper-Setters.
- iv. Remuneration to Superintendents of Examinations.
- v. Remuneration for skilled assistance in Practical Examinations.
- vi. Purchase of chemicals.
- vii. Stationery, printing and binding charges—
  - (a) Answer books.
  - (b) Question papers.
  - (c) Application forms, Hall tickets, Timetables, etc.
  - (d) Printed Instructions to Examiners and Superintendents of Examinations, List of Examiners, etc.
  - (e) Cloth-lined covers.
  - (f) Other articles of stationery, such as blotting paper, ink, brass-fasteners, etc.
- viii. Miscellaneous.

**II.—Endowment Account**

- i. Scholarships.
- ii. Prizes.
- iii. Medals.
- iv. Cost of lectures delivered including incidental charges.
- v. Miscellaneous.

**III.—Vacation Lectures Fund Account**

- i. Cost of vacation lectures.
- ii. Annuity to the widow of late Mr. Ramanujam, F. R. S.
- iii. Miscellaneous.

**IV.—University Library Account**

- i. Pay of officers—Librarian.
- ii. Pay of Establishment—Clerks and Servants.
  - (a) Permanent.
  - (b) Temporary.
- iii. Allowances—(a) Duty and other Allowances.
  - (b) Travelling Allowances.
- iv. Pensions and Gratuities.
- v. Contribution to Provident Fund Account.
- iv. Contingencies—
  - (a) Books and periodicals.
  - (b) Purchase of Manuscripts.
  - (c) Stationery, printing and binding charges.
  - (d) Service postage and telegram charges.
  - (e) Remuneration to stock verifier.
  - (f) Fixtures and equipments.
  - (g) Purchase and repair of furniture, typewriters and office cycles.
  - (h) Cost of liveries supplied to peons.
  - (i) Electric current charges.
  - (j) Other contingencies including wages of menials.
- vii. Miscellaneous.



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**V.—Statutory Grant Account****i. Transfers to—**

- (a) Tamil Lexicon Account.
- (b) Library Fund Account.
- (c) Research and Development Fund Account.

**ii. Professorship in Indian History and Archaeology.**

- (a) Pay of officers—Professor.
- (b) Pay of Establishment—Clerks and Servants.
- (c) Allowances—Travelling Allowance.
- (d) Books and periodicals.
- (e) Service postage and telegram charges.
- (f) Cost of stationery purchased.
- (g) Other contingencies including cost of liveries supplied to peons.
- (h) Contribution to Provident Fund Account.

**iii. Travelling Allowance to—**

- (a) Members of the Senate.
- (b) Members of the Syndicate.
- (c) Members of the Academic Council.
- (d) Members of the Council of **Affiliated Colleges**.
- (e) Members of Boards of Studies.
- (f) Members of Committees of the **several University authorities**.
- (g) Members for inspection of Colleges.

**iv. Remuneration to Members for Inspection of Colleges.****v. Other contingencies connected with the Inspection of Colleges.****vi. Miscellaneous.**

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**VI.—Special Grant Account**

- i. Transfer to—
  - (a) Statutory Grant Account to meet expenditure under Travelling Allowance.
  - (b) Library Fund Account.
  - (c) Economics Account.
  - (d) Research and Development Fund Account.
  - (e) University Fee Fund Account.
- ii. Salary of the Vice-Chancellor.
- iii. Charges connected with Students' Information Bureau.
- iv. Other contingencies.

**VII.—Non-recurring Grant Account****Library Building Account—**

- i. Construction of Library Buildings—
  - (a) Pay of Establishment—Clerks and Servants.
  - (b) Contribution for leave and pension.
  - (c) Purchase of building materials.
  - (d) Tools and Plants.
  - (e) Cost of plans and estimates.
  - (f) Honoraria to Engineers.
  - (g) Wages of Coolies.
- ii. Fixtures and Equipments.
- iii. Miscellaneous.

**VIII.—Tamil Lexicon Account**

- i. Pay of officers—Correspondent and Editor.
- ii. Pay of Establishment—Asst. Editor, Pandits, Clerks and Servants.

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- iii. Allowances—Travelling Allowance.
  - iv. Cost of printing the Tamil Lexicon.
  - v. Other stationery, printing and binding charges.
  - vi. Purchase of books.
  - vii. Cost of liveries supplied to peons.
  - viii. Service postage and telegram charges.
  - ix. Electric current charges.
  - x. Other contingencies including wages of menials.

#### **IX.—Publication Account.**

- i. (a) Text-books
  - (1) Printing and binding.
  - (2) Editor's Fees and other fees paid to publishers.
- (b) Other Academic Publications.
- (c) Purchase of Manuscripts.
- ii. Grants-in-aid of Academic Publications.
- iii. Other contingencies.
- iv. Miscellaneous.

#### **X.—University Research and Development Account.**

- i. Lectureships, Studentships, etc.
- ii. Research Laboratories in Science subjects.
- iii. Institute for advanced studies in Oriental Languages.
- iv. Schools of—

*Note.*—Separate accounts in respect of each of the items mentioned above should be maintained.

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**XI.—Economics Account**

- i. Pay of officers,—Professors and Readers.
- ii. Pay of Establishment—Lecturers, Clerks and Servants.
- iii. Allowances—Travelling Allowance.
- iv. Contingencies—
  - (a) Purchase of books and periodicals.
  - (b) Service postage and telegram charges.
  - (c) Purchase and repair of furniture.
  - (d) Stationery, printing and binding charges.
  - (e) Electric current charges.
  - (f) Other contingencies including cost of liveries supplied to peons.
- v. Contribution to Provident Fund Account.
- iv. Miscellaneous.

**XII.—Provident Fund Account**

- i. Advances.
- ii. Withdrawals.
- iii. Lapses and forfeitures.
- iv. Miscellaneous.

34. The Budget Estimates shall be presented to the Senate with such details as the Syndicate may from time to time prescribe. Eight months' actuals from April to November of the current year shall be shown in a separate column of the Budget Estimates against each head of account.

35. Demands for grants shall be put to the Senate for vote, account by account; in the case of the Fee Fund, the demand for grants under "General Administration" and under "Examination Charges" shall be put to vote separately.

36. Supplementary or additional estimates will be dealt with by the Senate in the same way as original demands for grants.

37. *Reappropriation of funds.*—Reappropriation means the transfer of fund from the allotment under one detailed head of expenditure to another under the same major head. The reappropriations may be sanctioned by the Syndicate (*vide* law 6 of Chapter XIV of the University Laws). But no reappropriation may be made without the sanction of the Senate, so as to increase the expenditure on an item, the provision for which has been specifically reduced by a vote of the Senate.

38. Details of reappropriation carried out in January, February and March of the previous year and in the nine months from April to December of the current year in which the budget estimates for the ensuing year are submitted to the Senate for sanction shall be embodied in the note to be appended to the above Budget Estimates.

39. *Expenditure.*—Payments from the University Funds shall be made by cheques only, except for small petty expenditure, in which case payments in cash may be made.

*Note.*—If moneys are required to be remitted by money order to the persons concerned, the Registrar shall draw a cheque for the amount in his own favour. In the case of moneys remitted to foreign countries by means of Bank cheques or Bank drafts, the cheques will be issued in favour of the Bank which issues the Bank cheques or drafts.

40. Any persons having a claim against the University will present a bill giving the details of the number and date of the orders of the University and of the supplies made and services rendered. The total amount of the claim shall be expressed in figures as well as in words; and the bills shall have been signed by the person to whom the amount claimed in the bill is due by the University. In the totals of bills six pies and more shall be rounded to an anna, and less than six pies shall be omitted.

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*Establishment Pay Bills.*

41. Pay bills of Establishment should be prepared in the form prescribed by the Syndicate, separately for permanent and temporary establishments. Against each post should be shown the names of both the substantive and officiating incumbents, and against each temporary post should also be noted the sanction thereto.

42. The pay bills should be supported, wherever necessary, by an absentee statement in the form prescribed by the Syndicate.

43. The entries in the pay bills shall be carefully scrutinised by the Registrar and the bills will then be passed for payment under the dated signature of the Registrar. Cheques will then be drawn and issued under the signature of the Registrar in favour of the Officer of the University who is responsible for the disbursement of the amount to the proper payees. The dated signature of the payees should be obtained in acquittance rolls and stamps should be affixed to the receipts for payments of sums in excess of Rs. 20 (Twenty).

44. Amounts drawn but not disbursed to the payees before the end of the month in which they are drawn shall be refunded by shortdrawals in the next bill drawn.

45. Pay bills may be signed at any time on the last working day of the month and they are due for payment on the next working day. Pay bills of establishments which are not drawn by the Registrar but by the other officers of the University shall be presented at the Registrar's Office before 1 p.m. on the last working day of the month.

46. For the purpose of these rules the Vice-Chancellor, the Registrar, the University Professor, and Assistant Professors, the University Readers, whose salaries are paid out of University Funds, the University Librarian, the Editor and correspondent of the Tamil Lexicon Committee and the Directors, and Professors of the University Research Institutes, and such other persons as may be recognised by the Syndicate in this behalf shall be regarded as Officers of

the University; other employees of the University shall be termed servants of the University.

47. Salaries and allowances may be paid in the case of the officers of the University upon the personal claim of the officer concerned and to his personal receipt. At the written request of the officer, the bill may be made payable to the Imperial Bank of India, Madras, or to any other Bank in Madras with which the University has regular transactions.

*Note.*—The monthly salary bills in the above cases may be signed by the officers concerned on the last working day of the month but the payment shall be made only on the next working day.

48. In the following cases separate bills may be presented at the Registrar's Office for pay due for part of a month and these bills may be paid before the end of the month:—

- i. When the person finally quits the service of the University, by retirement from service or otherwise or dies or is transferred to foreign service.
- ii. When the temporary appointment ceases before the end of the month and the person concerned has no substantive appointment in the permanent establishment of the University or there are no officiating posts to which he can be appointed

49. A salary and scale register shall be maintained in the form prescribed by the Syndicate to record the payment of salaries and allowances to the officers and servants of the University, temporary and permanent, and payment of pensions, studentships and scholarships.

50. Pay, allowances or pension can be drawn for the day of a man's death, irrespective of the hour at which the death takes place.

51. Pay and allowances and pension claimed on behalf of the deceased officer or servant of the University

may be paid without the production of the usual legal authority to the extent of Rs. 500 under the special orders of the Syndicate. The excess over Rs. 500 may be paid under the orders of the Syndicate on the execution of an indemnity bond with such sureties as the Syndicate may require, if the Syndicate is satisfied of the right and title of the claimant and it considers that undue delay would be caused by insisting on the production of letters of administration, succession certificate or probate.

52. The above rule shall apply, so far as may be, to cases of claim against the University preferred on behalf of the deceased persons who have rendered service to the University or made supplies to the University for which payments were not made before their death.

53. Cases of all officers and servants of the University whose service or conduct has been found during the year to be so unsatisfactory as to merit postponement of the increment or its temporary withholding or debarment from permanent promotion, shall be reported to the Syndicate for orders.

54. A history of service of all officers except the Vice-Chancellor of the University shall be maintained by the Registrar which shall be open to inspection by the officers concerned.

55. The claim form for pension or gratuity and the form known as the Registrar's and the pensioners' halves shall be those prescribed by the Syndicate.

56. Contingencies.—Claims for supplies made and services rendered shall, as far as possible and convenient, be preferred in the bill forms prescribed by the Syndicate. The bills shall be signed by the persons who are entitled to receive payment for supplies made or services rendered. The totals of all bills shall be expressed in figures as well as in words.

57. The entries in the bills should be carefully checked by the University office with reference to the details of the particulars orders of the University according to which



the supplies have been made or the services have been rendered. In the case of claims for services rendered or works executed, it should be seen that the persons authorized by the Syndicate to supervise and control any work or service, have recorded a certificate in the bills concerned that the work or service has been rendered fully and satisfactorily; while in the case of claims for supplies made to the University, it should be seen that the receiving officer or servant of the University has certified in the bills that the supplies mentioned in the bill have been actually received and are in good condition and up to the specifications stipulated and they have been brought to the respective stock accounts. If rates are settled beforehand the bills should also be checked with reference to such rates.

58. The pay or wages of menials and gardeners whose services under the University have not been rendered pensionable shall be debited to Contingencies and they will be drawn on contingent bills.

59. A subsidiary register shall be maintained with columns provided to show the names of Examiners, Question paper-setters and Superintendents of examinations, the details of amounts due to them for services rendered, the date of issue of bills or cheques, as the case may be, and the date of payment. All claims not paid before the end of a year shall be extracted from the register and carried forward to the register of the next year.

60. All contingent charges which are of a recurring nature or payable at periodical intervals (such as payments made on account of electric charges, telephone charges, Municipal taxes, supply of newspapers and periodicals, etc.), shall also be recorded in separate pages of the scale register.

61. *Permanent advance.*—If petty expenses are to be incurred and paid before money can be drawn on regular cheques issued for the purpose, the Syndicate may allow any officer of the University to hold permanent advance of an amount fixed in each case by the Syndicate, on the supposition that recoupments will be made at least once a month. The expenditure from the permanent advance shall be ac-

counted for in a separate register and the entries of charges, taken over to the General Account Book concerned.

62. *Travelling allowances.*—Travelling allowance bills should be checked to see that the journeys have been performed in the interests of the University, that rates claimed therein are in accordance with those sanctioned by the Syndicate, that the railway fares, etc., claimed are correct with reference to railway fares tables, etc., and that the countersignature of the persons concerned has been obtained in all cases, where necessary. In cases where the special sanction of the Syndicate is necessary to the payment of travelling allowance, it should be seen that the necessary sanction has been accorded by the Syndicate and a reference to the number and date of the letter in which the sanction of the Syndicate was conveyed has been quoted in the bill.

63. *Record of payments—General.*—Payments made on any account from the University funds shall be immediately recorded in the General Account Books of the respective accounts and the initials of the Registrar shall be set against the amount of each payment.

64. A register shall be maintained to show the receipt of bills in the University office for payment, the nature, amount, and the date of disposal of each bill.

65. Payees' receipts should be obtained in all cases and they should be stamped if the amount paid in each case exceeds Rupees Twenty.

66. *Closing of monthly accounts and verification of balances.*—At the end of each month, the receipts and expenditure entered in the general account book shall be compared item by item with the entries in the Bank Pass Books and the balances agreed, the difference, if any, being explained in a foot-note in the general account book as under:—

General account book closing cash balances

Deduct income (a) not yet credited into				
the Bank	..	..	..	..

Add amount of uncashed cheques detailed				
below (b)	..	..	..	..

Balance as per Bank Pass Book				100.
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Details of:—

(a).....

(b).....

In the case of Government and other Securities and fixed deposits with the Bank, the closing balances will be verified and agreed with the monthly certificates of balances furnished by the Bank.

*Note.* The monthly closing balances shall be written in figures as well as in words and these shall be attested by the dated signature of the Registrar. All accounts except the Fee Fund Account shall be closed and signed by the Registrar before the fifth working day of the succeeding month. The Fee Fund account of a month shall be closed and signed by the Registrar before the 25th of the second month following that to which the transactions relate.

67. No money should be drawn from the Bank and no cheques should be issued unless required for immediate disbursements covered by actual supplies received or services rendered.

68. All unspent balances of the sanctioned allotments at the end of a year shall lapse and shall not therefore be available for appropriation in the next year.

69. *Frauds, Embezzlements, etc.*—Whenever any loss of University moneys, stores or other property through embezzlement, fraud, theft, or other cause is discovered, enquiry shall at once be instituted by the Vice-Chancellor and the fact of the loss shall be reported forthwith to the Syndicate for necessary action.

70. A stamp account shall be maintained for the purchase of Service postage stamps and for the ordinary stamps received in the course of correspondence. The value of stamps used in the day should be recorded therein and the entry attested by a servant or officer of the University approved by the Syndicate in this behalf. Once a month and whenever orders for the fresh purchase of stamps are to be issued, the balance on hand should be verified and the

result of verification recorded in the Stamp Account over the dated initials of the concerned officer of the University.

71. Whenever a change takes place either temporarily or permanently in the personnel of any Officer of the University, a certificate of transfer of charge shall be given both by the relieved and relieving officers. The certificate shall indicate the date and hour of transfer of charge and also the description of valuables, money in cash, safe custody receipts, etc., received by the relieving officer from the relieved officer.

72. The Syndicate may frame, from time to time, subsidiary rules to carry out the provisions of these rules and such subsidiary rules shall, amongst other matters, provide for—

- (i) the maintenance of the various accounts of the University and collection of material for budget purposes and for the preparation of budget estimates,
- (ii) check of claims before payment,
- (iii) registering of letters received and their disposal,
- (iv) filing the connected papers in chronological order of receipt and disposal with a contents slip for each case,
- (v) the proper maintenance of the records and of the service registers and leave accounts, wherever necessary,
- (vi) the destruction of the several records and registers,
- (vii) the nature and kind of records and registers that should be permanently retained,
- (viii) the submission of monthly progress reports and arrear lists by the University office to the Vice-Chancellor,
- (xi) the maintenance of an up-to-date list showing the date and substance of the orders of the Syndicate and of the resolutions of the Senate

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passed from time to time in regard to accounts and financial matters,

- (x) the minimum educational qualifications required for clerical posts and the mode of recruitments,
- (xi) the preparation and maintenance of April returns, wherever necessary,
- (xii) the rules governing the conduct of University servants,
- (xiii) the maintenance of confidential rolls in respect of every member of the clerical establishments of the University, and
- (xiv) the periodical inspection of the University offices by a Committee of the Syndicate.

*Note.*—These subsidiary rules shall be printed as an Appendix to these rules.

**FORM—A.***Register of Securities and Fixed Deposits*

Serial Number.	Date of investments, i.e., purchase of security or the date of deposit, etc., as the case may be	Particulars of investment and in case of Govt. Securities, number and date of paper.	Amount—face value.	Rate of interest.	Initials of the Registrar.	Date of recovery of interest and adjustment in accounts.	Amount of interest recovered and adjusted in accounts.	Initials of the Registrar.
1	2	3	4	5	6	7	8	9

*Note.*—When any sum is withdrawn from investment in fixed deposits or any Government or other Securities are sold, the particulars of withdrawal or sale, as the case may be, should be noted in red ink across columns 1—3 of this register and the face value deducted from the total in column 4 and the balance of investment entered. If no balance remains, "account closed" should be written across the page.

**FORM B—GENERAL ACCOUNT BOOK***Receipts and Charges*

Month and date.	From whom received.	Particulars of receipt.	Amount in cash.	In fixed deposits with the Bank.	In Govt. and other securities.	Month and date.	To whom paid.	Particulars of payment.	No. and date of cheque issued.	Amount in cash.	In fixed deposits with the Bank.	In Govt. and other securities.



## **APPENDIX A.**

### **FINANCIAL DELEGATION UNDER FINANCIAL RULE 3.**

1. The Vice-Chancellor shall be authorized to sanction expenditure not exceeding Rs. 50 on any one item, and up to a limit of Rs. 200 during a month, and all such items shall be placed before the Syndicate for approval once a month. (Adopted by the Senate in December 1927.)

2. The Registrar shall be authorized to incur contingent charges not exceeding Rs. 15 on any one item and up to a limit of Rs. 100 per mensem and a consolidated statement of such charges for each month shall be placed before the Syndicate for approval. (Adopted by the Senate in December 1927.)

3. The Librarian shall be authorized to incur contingent charges not exceeding Rs. 15 on any one item and up to a limit of Rs. 100 per mensem and a consolidated statement of such charges for each month shall be placed before the Library Committee for approval. (Adopted by the Senate in March 1928).

4. The University Professors of Indian History and Economics, the Directors of the Research Laboratories in Science subjects and the Vice-Chancellor on behalf of the other Research Departments of the University shall be authorised to incur expenditure of not more than Rs. 10 on any one item and up to a limit of Rs. 30 per mensem and a consolidated statement of such charges for each month shall be placed before the Syndicate for approval.

## **APPENDIX B.**

### **SUBSIDIARY RULES**

*(To be printed later.)*

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(A) Do. Account rule.

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*Note of Posting of Corrections.*

Serial number of Correc- tion.	Rule Affected	Date of Posting	Serial number of Correc- tion.	Rule Affected.	Date of Posting

*Note of Posting of Corrections.*

Serial number of Correction.	Rule Affected	Date of Posting	Serial number of Correction.	Rule Affected.	Date of Posting.

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**APPENDIX XXX.****UNIVERSITY LIBRARY, MADRAS.**

In November, 1903, a proposal was received by the Government of Madras from the Madras University that a legacy of Rs. 25,619 bequeathed to it by the will of the late Mr. William Griffith, dated September 9, 1897 and received by the University on October 25, 1901, should be utilized for the establishment and organization of a library in connection with the University; and that the University should be associated with the management of the Connemara Public Library, with a view to making that a University as well as a Public Library. The Government agreed to the proposal and allowed the University the use of the Connemara Library buildings for the deposit of its books, provided that these books, while remaining the property of the University, are available to the general readers of the Connemara Public Library.

The Local Government in their order No. 203, Law (Education), dated 6th February 1923, accorded sanction to a reorganisation of the Library finances under which all the financial resources intended for the University Library hitherto shown in different accounts have been merged into a single consolidated account called the "Library Account." As a result of this the Library has a funded capital of about Rs. 3,83,600 in Government securities and in deposits in the Central Urban Bank earning an annual income of about Rs. 22,000. In addition the Library receives an annual recurring grant of Rs. 35,500 thus having a total annual income of about Rs. 57,500 towards the upkeep and maintenance.

Under Section 24, clause (k) of the Madras University Act of 1923, the Academic Council will control and manage the University Library, frame rules regarding its use and appoint a Library Committee under the general control of the Council to manage its affairs.

The Laws regulating the administration of the University Library are embodied as Chapter XXIV of the laws of the University (Vide page 238 of Vol. I.)

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**RULES OF THE MADRAS UNIVERSITY LIBRARY.**

1. The hours, when the Madras University Library will be open to the public, shall be fixed by the University Library Committee.

The Library Committee has decided as follows:—

The library shall be open to the public on all days, except Fridays at the following hours:—

First Saturday of each month .. .. 7 a.m. to 12

noon.

Other days (April to September) .. .. 7 a.m. to 6 p.m.  
 „ (October to March) .. .. 7 a.m. to 5-30 p.m.

**III.**—The loan counter shall be closed half an hour before closing of the library.

**II. (a)** Books may be consulted within the University Library premises by the following:—

- (1) (1) Members of any of the authorities of the University.
- (2) Teachers of the University, of the Constituent or Affiliated Colleges and of other institutions approved or recognised by the University.
- (3) Graduates of the University.
- (4) Matriculated students of the University.

(ii) Any other person on being recommended by a Professor of a constituent or an affiliated College, or a member of any of the authorities of the University, or the Chairman of the Library Committee or the Librarian.

(b) No person will be admitted to the Library unless cleanly in person and properly dressed.

**Note.**—Where a dhoti is worn, at least a shirt must be worn. The decision of the Chief Officer present in the Library at the time as to what is cleanly or decent is final.

(c) Readers desirous of using the Library shall enter their names and addresses legibly in a book which is kept for the purpose. Such signature shall be taken as an acknowledgement that the person agrees to conform to the rules of the Library.

(d) Readers may not write upon, damage, or make any mark upon any book, manuscripts or map belonging to the Library.

(e) No tracing is allowed to be made without express permission from the Librarian.

(f) Silence must be strictly observed in the Library.

(g) Readers before leaving the library must return to the counter clerk any books, manuscripts, or maps which they have taken for consultation.

(h) Readers shall be responsible for any damage or injury done to the books or to other property belonging to the Library, and shall be required to replace such books or other property damaged or rejected, or pay the value

thereof. If one book of a set is injured, the whole set shall be replaced.

- (i) Cases of incivility, or other failure in the service, should immediately be reported to the senior member of the staff present.
- (j) Sticks and umbrellas must be left at the door.
- (k) Spitting and smoking are strictly prohibited.
- (l) Dogs and other animals are not admitted.

III. (a) Books may be taken out on loan by the following:—

- (i) Members of any of the Authorities of the University, teachers of the University and of constituent colleges, and registered graduates of the University, when resident within the limits of the University or in such places in its immediate vicinity as may be approved by the Library Committee.

- (ii) Students studying for a degree examination after passing the Intermediate in any of the Constituent or Affiliated Colleges, persons engaged in special research, and all graduates of the University not coming in class (i), when resident within the limits of the University or in such places in its immediate vicinity as may be approved by the Library Committee and on the production of a certificate to the effect that they are such from a Professor of a Constituent or an Affiliated College or a member of any of the authorities of the University.

(iii) Teachers of the Affiliated Colleges.

(b) Each borrower shall make a cash deposit of Rs. 20, and he shall be given as many Borrowers' tickets as the number of volumes he is entitled to remove from the Library at one time.

(c) A week's notice must be given before a deposit is withdrawn. No deposit will be repaid until all the books outstanding against the depositor and all his Borrowers' tickets have been duly returned.

(d) Each borrower may have out on loan not more than three separate volumes at one time and must make his own arrangements for the conveyance of books to and from the Library except that (i) in the case of mofussil borrowers the books will be forwarded and returned by registered post or railway parcel, the to and fro charges being borne by the borrower, and (ii) in the case of graduate borrowers living within the city of Madras books may be delivered once a week at their residences on payment of an advance quarterly subscription of one rupee.

(e) All marking, underlining, etc., is absolutely forbidden.

(f) The borrower before leaving the counter must satisfy himself as to whether the book lent to him is in sound condition, and if not he must immediately bring the matter to the notice of the Assistant Librarian; otherwise he is liable to be held responsible for the replacement of the book. If one book of a set is injured or lost the whole set must be replaced, the value being immediately remitted to the Library for return after the set is actually replaced.

(g) Depositors are not allowed to sub-lend the books of the Library.

(h) Periodicals, dictionaries, works which might be difficult to replace and such other works as may from time to time be considered necessary shall not be lent out.

(i) All books on loan must be returned at the expiration of a fortnight in the case of local borrowers, and four weeks in the case of mofussil borrowers, from the date of issue. Any book which is temporarily in special demand may be lent for such shorter period as may be necessary or may be temporarily declared reference works under Rule III (h). Loans may at any time be terminated by order of the Librarian.

(j) If a book is not returned when due, a fine of one anna per volume per day shall be levied.

(k) A depositor against whom any fine or other charges is outstanding will not be allowed to borrow books or withdraw his deposit until he has paid the amount due.

(l) Books may be renewed for a further period of one fortnight provided—

- (i) the renewal application reaches the Librarian three clear days before the date on which the books are due;
- (ii) no other reader has applied for the books in the meantime;
- (iii) not more than three consecutive renewals are allowed for the same book without its production in the Library for inspection.

In case condition (ii) is not satisfied, the Librarian shall cause a letter to that effect to be posted to the borrower concerned, and the books must be returned on the due date.

(m) The University Library Committee may refuse under special circumstances any application for the privilege of loan of books without assigning any reason therefor.

(n) The University Library Committee may grant special loans on such conditions as it may prescribe.

The University Library Committee has resolved that bound volumes of periodicals may be lent on the usual conditions to persons engaged in special research on the subject with which they deal, with the approval of the Library Committee, provided that the application for the special loan is sent through the head of the appropriate department of study or the principal of a college who will be held responsible in case of loss or damage and that the application slip for each volume is also counter-signed by the same authority.

(o) Any infringement of the rules will render the privilege of admission to the Library liable to forfeiture.

*N.B.*—The additions made by the Library Committee to the above rules are embodied therein in their appropriate places in small type.

The books and journals acquired for the library are in general such as are adopted for reference and for advanced study and research. Books of an elementary character are excluded from the library.

An author catalogue containing all the items issued till 1st January 1926 has been published in three volumes:

Main Catalogue (up to the end of 1913)	price	Rs.	1	0	0
1st Supplement (1914—1915)		"	"	1	8
2nd Supplement (1917—1925)		"	"	3	0



## APPENDIX XXXI.

### ELECTION BY THE UNIVERSITY

NOTIFICATION PUBLISHED AS AN APPENDIX TO G.O.

No. 1780 M., DATED NOVEMBER 5, 1919

1. In exercise of the powers conferred on him by sections 59 and 347 (2) (b) of the Madras City Municipal Act 1919, the Governor in Council makes the following rules for the election of a councillor of the Madras Corporation by the members of the Senate of the University of Madras.

*Rules for the election of a councillor of the Corporation of Madras by the members of the Senate of the University of Madras.*

1. The councillor to be elected by the members of the Senate of the University of Madras under notification, dated September 17, 1919, and in terms of clause (c) of sub-section (1) of section 5 of the Madras City Municipal Act, 1919, shall be elected from among their own number by the votes of the said members under the rules hereinafter prescribed.

*Preliminary*

2. 'Returning Officer' means the Registrar of the University of Madras and includes any officer of the University deputed for the time being by the Registrar to perform his duties under these rules.

3. On receipt of a notice from the Governor in Council directing the Senate to elect a councillor, the Returning Officer shall publish such notice, together with the notice required under rule 14 of these rules, in the *Fort St. George Gazette* and in two or more of the local newspapers and shall on or before the date of such publication, post a copy of both the notices to each member of the Senate.

*Qualification and nomination of Candidates*

4. (1) Any member who is not disqualified for election under section 52 of the Madras City Municipal Act, 1919, and who resides in the City may be nominated as a candidate for election.

(2) Such nomination shall be made by means of a nomination paper in Form I annexed to these rules and must reach the Returning Officer not later than the date fixed under rule 14.

(3) Each nomination paper shall be subscribed by two electors as proposer and seconder.

Provided that no elector shall subscribe more than one nomination paper.

5. (1) A candidate who has been duly nominated for election may withdraw his candidature by a written and signed communication delivered in person or by registered post to the Returning Officer not later than the date fixed for the scrutiny of nomination papers.

(2) The Returning Officer shall forthwith notify the withdrawal of any candidate and shall remove from the voting paper the name of the candidate who has withdrawn his candidature.

(3) A candidate who has withdrawn his candidature shall not be allowed to cancel the withdrawal or to stand as a candidate for the same election.

#### *Scrutiny of nomination papers*

6. (1) On the date and at the time and place appointed under rule 14 for the scrutiny of nomination papers, every candidate and his proposer and seconder may attend, and the Returning Officer allow them to examine all nomination papers which have been received by him as afore-said.

(2) Where an elector subscribes two or more nomination papers, all such nomination papers except the one first received by the Returning Officer shall be deemed to be invalid, and if the Returning Officer is unable to determine which of such nomination papers was first received by him, both or all of such papers shall be deemed to be invalid.

(3) The Returning Officer shall examine the nomination papers and shall decide all objections which may be made to any nomination paper on the ground that it is not valid under these rules, and may reject, either of his own motion or on such objection any nomination paper on such ground; the decision of the Returning Officer shall in every case be endorsed by him on the nomination paper in respect of which such decision is given, and shall be final save as provided in rule 13.

#### *Voting*

7. (1) If one duly nominated candidate only stands for election, the Returning Officer shall forthwith declare such candidate to be elected.

(2) If more duly nominated candidates than one stand for election, the Returning Officer shall forthwith publish their names and addresses in his Office and by an advertisement in

two or more of the local newspapers and shall further cause their names to be entered in voting papers in Form II annexed to these rules,

(3) On or before such date as may be appointed under rule 14 in this behalf, the Returning Officer shall send by registered post to each elector then residing in India whose address has been registered at the office of the Returning Officer one such voting paper signed by the Returning Officer.

Provided that such a voting paper shall also be supplied to any such elector on his applying to the Returning Officer for the same at any time before the day appointed for the counting of votes and that no election shall be invalidated by reason of the non-receipt by an elector of his voting paper.

8. On the date and at the time and place appointed by the Returning Officer in this behalf under rule 14 every elector desirous of recording his vote in the presence of the Returning Officer shall attend for the purpose, and after recording his vote on the voting paper in the manner prescribed therein deliver the same to the Returning Officer.

Provided that, if an elector is unable to read or write or is by reason of blindness or other physical defect incapacitated from recording his vote as required by this rule, the Returning Officer shall assist him in such manner as may be necessary to mark the voting paper and sign the declaration on the back thereof.

9. Any elector not desirous of recording his vote in the presence of the Returning Officer may send his voting paper by registered post to the Returning Officer after recording his vote thereon in the manner prescribed therein.

Provided that voting papers which are not received by the Returning Officer before the day appointed for the counting of votes shall be rejected.

#### *Counting of votes and declaration of result*

10. (1) On receiving the voting papers the Returning Officer shall examine them to see whether they have been correctly filled up.

(2) Where an elector records his vote on two or more voting papers, all such voting papers except the one first received by the Returning Officer shall be deemed to be invalid, and if the Returning Officer is unable to determine which of such papers was received first, both or all of such papers shall be deemed to be invalid.

(3) The Returning Officer shall endorse 'rejected' with the grounds for such rejection on any voting paper which he may reject on the ground that it is invalid under these rules and, save as provided in rule 13, such rejection shall be final.

(4) The Returning Officer shall fold the lower portion of every paper whether valid or invalid, along the dotted line on the back so as to conceal the name of the elector, and shall seal down the portion thus folded with his official seal.

11. (1) The Returning Officer shall attend for the purpose of counting the votes on such date at such time and place as may be appointed in this behalf under rule 14.

(2) Every candidate may be present in person or may send a representative duly authorized by him in writing, to watch the process of counting.

(3) The Returning Officer shall show the voting papers sealed as provided by rule 10 to the candidates or their representatives.

(4) If an objection is made to any voting paper on the ground that it is invalid under these rules or to the rejection by the Returning Officer of any voting paper, it shall be decided at once by the Returning Officer whose decision shall be final, save as provided in rule 13.

(5) In such cases the Returning Officer shall record on the voting paper the nature of the objection and his decision.

12. (1) When the counting of the votes has been completed, the Returning Officer shall forthwith declare the candidate to whom the largest number of votes has been given to be elected.

(2) Where an equality of votes is found to exist between any candidates and the addition of a vote will entitle any of the candidates to be declared elected, the determination of the person to whom such one additional vote shall be deemed to have been given shall be made by lot to be drawn in the presence of the Returning Officer and in such manner as he may determine.

#### *Publication of result*

13. The Returning Officer shall without delay report the result of the election to the Secretary to the Government of Madras in the Local and Municipal Department, and the name of the candidate elected shall, if the Governor in Council considers the election valid, be published in the *Fort St. George Gazette*.

#### *Appointment of dates, times and places*

14. The Returning Officer shall appoint, and shall notify, such date and, if necessary, such time and place as he may think suitable for each of the following proceedings, namely:—

- (a) the pending of nomination papers under rule 4;
- (b) the scrutiny of nomination papers under rule 6;
- (c) the sending of voting papers under 7;
- (d) the recording of votes under rule 8; and
- (e) the counting of votes under rule 11,

## FORM I

*Nomination paper*

We the undersigned nominate the undermentioned as a candidate at the ensuing election of a councillor for the Corporation of Madras:—

Name in full	Description	Abode	Occupation

1. Signed.

2. Signed

*Declaration.*

I, the undersigned, declare that, to the best of my knowledge and belief, I am eligible for election and that I am willing to stand.

Date

Signed.

*Instruction*

Nomination papers which are not received by the *Returning Officer* before the ..... day of ..... 19 ..... shall be invalid.

## FORM II

*Voting Paper*

A councillor is to be elected to the Corporation of Madras by the members of the Senate of the University of Madras. The following candidates have been duly nominated:—

Serial No.	Names of candidates	Vote

Returning Officer

---

*Instructions*

1. Each elector has one vote.

2. He shall vote by placing, or causing to be placed, a mark X opposite the name of the candidate whom he prefers.

3. The voting paper shall be invalid if the mark X is placed opposite the name of more than one candidate, or if it is so placed as to render it doubtful to which candidate such mark is intended to apply.

4. The elector shall sign the declaration on the back of the paper. Without such signature the voting paper shall be invalid.

5. Voting papers shall be marked and delivered personally to the Returning Officer or sent to him by registered post. Voting papers not personally delivered must not be sent except by registered post. Voting papers which are not received by the Returning Officer before the                      day of                      19                      will be rejected.

6. Votes may be recorded in the presence of the Returning Officer between the hours of                      and                      on the                      day of                      19                      at the                     

*Name of the elector.*

I hereby declare that I am a member of the Senate of the University of Madras.

(Signed)

*Fold on this line*

## APPENDIX XXXII

## UNIVERSITY PUBLICATIONS

## I. TEXT-BOOKS

<i>Names of Publications.</i>	<i>Price.</i>	<i>Where available.</i>
<b>I. S.S.L.C. Text-books</b>	<b>Rs. As. Ps.</b>	<b>Messrs. C. Coomaraswami Naidu &amp; Sons.</b>
1930		G.T., Madras.
English ...	1 4 0	Do.
Tamil Group A. ...	0 10 0	
Do. C. ...	0 12 0	
Malayalam A. ...	0 10 0	
Do. C. ...	0 12 0	
Kanarese A. ...	0 10 0	
Do. C. ..	1 0 0	
Sanskrit A. ...	0 10 0	
Do C. ...	0 12 0	
Intermediate Tamil Selections—1931 ...	0 10 0	
B.A. Selections in Tamil—1931 ...	1 0 0	
ii. Selections in Tamil, Telugu, Kanarese and Malayalam for the Intermediate Examination	6 0 0 each	Registrar's Office
iii. Selections in Tamil, Telugu and Kanarese for the B.A. Degree Examination in 2 Volumes each.	5 4 0 „	Do.
iv. Selections in Malayalam for the B. A. Degree Examination—		
Volume I—3 Parts. }	1 8 0 each	Do.
Volume II—3 Parts. }	part	

## II. OTHER PUBLICATIONS

	<b>Rs. A. P.</b>	
i. Some South Indian Villages by Dr. Slater.	5 0 0 each.	Oxford University Press.
ii. Sources of Vizianagar History by Dr. S. Krishnaaswami Ayyangar.	4 8 0 „	Superintendent, Government Press, Mount Road, Madras.

<i>Names of Publications.</i>	<i>Price.</i>			<i>Where available.</i>
	Rs.	A.	P.	
iii. Dravidic Studies—				
Volume I ... ..	0	2	0	Supt. Government Press, Mount Road, Madras.
Volume II ... ..	0	8	0	Do
Volume III ... ..	0	12	0	Do.
Bound Vols. I—III ...	2	4	0	Do.
iv. History of Sri Vaishna- vas by Mr. R. Gopi- natha Rao	0	10	0	Do.
v. Psychological Tests of Mental abilities by Dr. A. S. Woodburne	2	8	0	Do.
vi. The Nayaks of Madura	8	0	0	Oxford University Press
vii. A study of the Optical Properties of Potas- sium Vapour by Dr. A. L. Narayan.	1	12	0	Messrs. C. Coomara- swami Naidu & Sons, G. T. Madras.
viii. Absorption Spectra and their bearing on the structure of atoms and molecules by Dr. A. L. Narayan	0	8	0	Do.
ix. Investigations on the molecular scattering light by Dr. K. R. Ramanathan.	1	12	0	Do.
x. The Kavari, the Mukari and the Sangam Age, by Mr. T. G. Aravamun- dan.	2	4	0	Do.
xi. Dravidic Studies—No IV on the Octaval System of Reckoning in India (by Dr. Mark Collins).	0	12	0	Do.
xii. Stone Age in India ...	1	0	0	Do.
xiii. Anatomical and Taxo- nomic Studies of some Indian Fresh and Amphibious Gastropods by Mr. H. Srinivasa Rao, M.A., D.Sc.	1	4	0	Do.
xiv. India through the Ages —Jadunath Sirkar.	1	8	0	Do.



	Names of Publications.	Price.			Where available.
		Rs.	A.	P.	
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